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WATER SUPPLY OUTLOOK FOR MONTANA.



U.S. DEPT. OF AGRICULTURE
MONTANA AGRICULTURAL EXPERIMENT STATION

Oct 29 '76

U.S. DEPT. OF AGRICULTURE
MONTANA AGRICULTURAL EXPERIMENT STATION

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with
MONTANA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

SNOW PILLOW RECORDS,
1976 WATER YEAR //

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE
SCS PHOTO AZ-5460

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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CONTENTS

	Page
MONTANA FALL SUMMARY	1-2
SOIL MOISTURE	3-6
MAP, 1976 APRIL THROUGH SEPTEMBER STREAMFLOW . . .	7
1976 SNOW COVER COMPARISONS	8
RESERVOIR STORAGE	9
SNOW PILLOW DATA	
Columbia Drainage	
Kootenai River	
Banfield Mountain	10
Garver Creek	11
Grave Creek	12
Hawkins Lake	13
Poorman Creek	14
Stahl Peak	15
Flathead River	
Flattop	16
Meadow Creek	17
Noisy Basin	18
Clark Fork River	
Black Pine	19
Combination	20
Copper Bottom	21
Copper Camp	22
Hoodoo Basin	23
Lubrecht Flume	24
North Fork Elk Creek	25
Peterson Meadows	26
Bitterroot River	
Saddle Mountain	27
Twelvemile Creek	28
Twin Lakes	29
Missouri Drainage	
Jefferson River	
Calvert Creek	30
Divide	31
Lemhi Ridge	32
Rocker Peak	33
Madison River	
Black Bear	34
Madison Plateau	35
Tepee Creek	36
West Yellowstone	37
Whiskey Creek	38
Gallatin	
Bridger Bowl	39
Carrot Basin	40
Lick Creek	41
Maynard Creek	42

CONTENTS (Continued)

Shower Falls	43
Taylor Peaks	44
Missouri Main Stem	
Deadman Creek	45
Frohner Meadows	46
Milk	
Rocky Boy	47
Marias-Teton-Sun	
Mount Lockhart	48
Waldron	49
Judith	
Spur Park	50
Cole Creek	51
Fisher Creek	52
Northeast Entrance	53
White Mill	54
MAP, SNOW COURSES AND RELATED DATA MEASURING SITES	
COOPERATORS	Inside Back Cover

MONTANA FALL SUMMARY

October 1, 1976

* * * * *
*
* The winter snow pack was generally *
* average or above. Very heavy snow *
* was observed in portions of the *
* Bitterroot, Upper Clark Fork, Big- *
* hole, and Boulder River headwaters *
* near the Continental Divide. Most *
* areas had a very good high eleva- *
* tion snow pack. Runoff was quite *
* orderly and the high elevation pack *
* provided good late season flows. *
* Many mountain areas had above *
* average precipitation during the *
* summer months, particularly in *
* August. Soil moisture is generally *
* average or above in most mountain *
* watersheds. Storage in irrigation *
* reservoirs is generally above aver- *
* age. *
*
* * * * *

COLUMBIA RIVER DRAINAGE

Snow pack accumulation through the winter was generally near average in the Flathead and Kootenai River drainages increasing southward to near record amounts in the Bitterroot and Upper Clark Fork River headwaters near the Continental Divide. The main snowmelt runoff occurred under near normal temperature and precipitation conditions and the lack of low elevation snow helped most streams to stay within their banks.

Streamflow for the April through September period was near average in the Kootenai and Flathead increasing to above average through the Lower Clark Fork and Blackfoot drainage. Large volumes were produced by streams in the Upper Clark Fork and Bitterroot River headwaters. Most areas had adequate irrigation water supplies.

Moisture in mountain soils is generally average or above.

MISSOURI RIVER DRAINAGE

Heavy snow accumulated in the headwaters of the Bighole, Boulder and Madison drainages in Yellowstone National Park with average or above average elsewhere. Snowmelt progressed at a near normal rate with the good supply of high elevation snow providing adequate late season irrigation supplies.

Streamflow during April through September was well above average on the Jefferson River Tributaries, above average in the Gallatin and Madison and near average on most other Missouri Tributaries.

YELLOWSTONE RIVER DRAINAGE

The winter snow accumulation was above average in all mountain watersheds and particularly heavy in Yellowstone National Park. High elevations had an abundant snow pack. Desirable spring temperatures and rainfall helped hold snowmelt peaks within the streambanks. Total volume of water produced was above average in all drainages. Most streams had April through September runoff in the 120 to 130 percent average range. Irrigation water supplies were generally adequate.

SOIL MOISTURE

July 1, 1976

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †
<u>COLUMBIA RIVER BASIN</u>							
<u>Kootenai</u>							
Baree Trail	3800	48	7.5	7-1	5.9	6.6	5.5
Murphy Lake R. S.	3000	48	22.6	7-1	19.4	19.1	20.0
Raven	3050	48	23.0	7-1	16.7	14.5	17.3
<u>Flathead</u>							
Desert Mountain	5600	54	8.4	7-6	8.3	8.4	8.5
Marias Pass	5250	54	6.5	6-22	6.9	6.1	5.5
<u>Clark Fork</u>							
Black Pine	7100	48	10.0	6-29	8.6	8.8	8.9
Lubrecht Forest	4100	48	26.8	-	-	-	-
Seeley Lake R. S.	4030	48	11.9	-	-	-	-
Skalkaho Summit	7260	48	10.8	6-29	9.8	9.7	10.1
<u>Bitterroot</u>							
Gibbons Pass	7100	48	7.1	7-1	5.2	7.0	6.4
Lolo Pass	5250	48	10.6	6-29	9.1	9.8	9.5
<u>MISSOURI RIVER BASIN</u>							
<u>Beaverhead</u>							
Lakeview	6700	48	15.3	6-30	14.4	14.8	13.7
<u>Madison</u>							
West Yellowstone	6700	48	6.5	7-4	2.5	2.9	2.9
<u>Gallatin</u>							
Bridger Bowl	7250	48	17.0	7-2	14.9	15.0	15.9
College Site No. 2	4856	54	17.7	7-2	14.2	13.9	13.3
Lick Creek	6860	48	18.8	7-2	13.8	14.6	17.3
Twenty-One Mile	7150	48	10.0	7-4	8.2	9.2	8.7
<u>Missouri Main Stem</u>							
Kings Hill	7420	48	11.8	6-30	10.2	11.2	10.8
Stemple Pass	6350	48	5.9	7-8	5.0	5.2	5.0
<u>Milk</u>							
Beaver Creek	3950	48	20.9	6-29	10.3	17.5	12.9
Rocky Boy	4700	36	10.1	6-29	9.7	9.7	9.0
<u>Yellowstone</u>							
Battle Ridge	6020	48	17.6	7-2	13.1	13.7	14.5
Northeast Entrance	7350	48	9.4	6-22	8.7	9.5	8.8
PMC Dryland	3700	48	20.7	6-29	5.7	8.2	-

† Average for period of record.

SOIL MOISTURE

August 1, 1976

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

COLUMBIA RIVER BASINKootenai

Baree Trail	3800	48	7.5	8-2	3.5	3.4	3.6
Murphy Lake R. S.	3000	48	22.6	8-1	19.4	18.9	18.9
Raven	3050	48	23.0	8-2	14.7	13.8	15.8

Flathead

Desert Mountain	5600	54	8.4	7-30	7.3	6.0	6.4
Marias Pass	5250	54	6.5	7-21	5.3	4.6	4.2

Clark Fork

Black Pine	7100	48	10.0	7-29	8.5	9.1	8.5
Lubrecht Forest	4100	48	26.8	-	-	-	-
Seeley Lake R. S.	4030	48	11.9	8-2	9.0	8.9	7.1
Skalkaho Summit	7260	48	10.8	7-26	10.2	10.5	10.4

Bitterroot

Gibbons Pass	7100	48	7.1	7-27	5.7	6.2	4.9
Lolo Pass	5250	48	10.6	7-30	7.3	6.2	5.8

MISSOURI RIVER BASINBeaverhead

Lakeview	6700	48	15.3	7-31	9.6	16.8	10.8
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Madison

West Yellowstone	6700	48	6.5	8-2	1.8	2.6	2.1
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Gallatin

Bridger Bowl	7250	48	17.0	8-2	14.7	14.9	15.4
College Site No. 2	4856	54	17.7	7-30	10.4	11.4	10.2
Lick Creek	6860	48	18.8	8-2	13.2	15.0	14.8
Twenty-One Mile	7150	48	10.0	8-2	6.3	7.1	5.6

Missouri Main Stem

Kings Hill	7420	48	11.8	-	-	9.7	9.2
Stemple Pass	6350	48	5.9	7-30	4.1	4.8	4.0

Milk

Beaver Creek	3950	48	20.9	7-30	7.4	8.8	8.3
Rocky Boy	4700	36	10.1	7-30	7.2	7.5	7.4

Yellowstone

Battle Ridge	6020	48	17.6	8-2	12.8	11.2	11.1
Northeast Entrance	7350	48	9.4	-	-	-	6.5
PMC Dryland	3700	48	20.7	8-9	4.1	5.8	-

† Average for period of record.

SOIL MOISTURE

September 1, 1976

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

COLUMBIA RIVER BASINKootenai

Baree Trail	3800	48	7.5	9-1	3.8	4.8	4.1
Murphy Lake R. S.	3000	48	22.6	9-2	19.9	18.7	18.8
Raven	3050	48	23.0	9-1	14.6	13.6	15.2

Flathead

Desert Mountain	5600	54	8.4	9-1	7.2	8.3	5.4
Marias Pass	5250	54	6.5	8-24	4.8	4.1	3.6

Clark Fork

Black Pine	7100	48	10.0	8-31	8.4	8.9	8.1
Lubrecht Forest	4100	48	26.8	-	-	-	-
Seeley Lake R. S.	4030	48	11.9	9-9	8.4	10.1	4.9
Skalkaho Summit	7260	48	10.8	8-31	10.6	10.6	9.9

Bitterroot

Gibbons Pass	7100	48	7.1	8-31	5.0	6.3	4.0
Lolo Pass	5250	48	10.6	8-27	7.3	7.8	4.4

MISSOURI RIVER BASINBeaverhead

Lakeview	6700	48	15.3	8-31	7.2	15.9	9.4
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Madison

West Yellowstone	6700	48	6.5	8-30	1.5	1.7	1.8
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Gallatin

Bridger Bowl	7250	48	17.0	8-30	14.5	14.9	15.8
College Site No. 2	4856	54	17.7	8-27	8.4	8.3	9.6
Lick Creek	6860	48	18.8	8-31	9.9	12.7	14.6
Twenty-One Mile	7150	48	10.0	8-30	4.6	5.6	3.9

Missouri Main Stem

Kings Hill	7420	48	11.8	8-31	7.8	9.7	8.0
Stemple Pass	6350	48	5.9	9-2	3.5	4.8	3.8

Milk

Beaver Creek	3950	48	20.9	8-27	7.2	9.1	7.6
Rocky Boy	4700	36	10.1	8-27	6.6	9.6	7.3

Yellowstone

Battle Ridge	6020	48	17.6	8-30	8.1	10.9	9.4
Northeast Entrance	7350	48	9.4	-	-	-	5.6
PMC Dryland	3700	48	20.7	9-1	4.8	5.3	-

† Average for period of record.

SOIL MOISTURE October 1, 1976

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

COLUMBIA RIVER BASIN
Kootenai

Baree Trail	3800	48	7.5	10-1	2.5	2.8	4.6
Murphy Lake R. S.	3000	48	22.6	10-5	18.6	19.1	18.6
Raven	3050	48	23.0	10-1	17.0	16.6	16.4

Flathead

Desert Mountain	5600	54	8.4	9-27	5.9	6.2	5.8
Marias Pass	5250	54	6.5	9-26	3.8	4.7	3.9

Clark Fork

Black Pine	7100	48	10.0	9-28	8.4	8.2	8.0
Lubrecht Forest	4100	48	26.8	10-4	14.2	14.6	13.4
Seeley Lake R. S.	4030	48	11.9	10-6	5.4	8.4	4.6
Skalkaho Summit	7260	48	10.8	9-28	10.2	10.4	10.2

Bitterroot

Gibbons Pass	7100	48	7.1	-	-	5.5	4.3
Lolo Pass	5250	48	10.6	9-30	7.3	6.4	4.5

MISSOURI RIVER BASIN
Beaverhead

Lakeview	6700	48	15.3	9-30	11.4	11.7	8.3
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Madison

West Yellowstone	6700	48	6.5	10-1	2.9	1.4	2.3
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Gallatin

Bridger Bowl	7250	48	17.0	9-28	14.9	14.8	15.6
College Site No. 2	4856	54	17.7	10-1	9.6	6.9	10.0
Lick Creek	6860	48	18.8	9-28	14.7	12.0	14.9
Twenty-One Mile	7150	48	10.0	10-1	5.3	3.1	4.4

Missouri Main Stem

Kings Hill	7420	48	11.8	-	-	9.0	7.7
Stemple Pass	6350	48	5.9	10-1	3.3	4.1	3.8

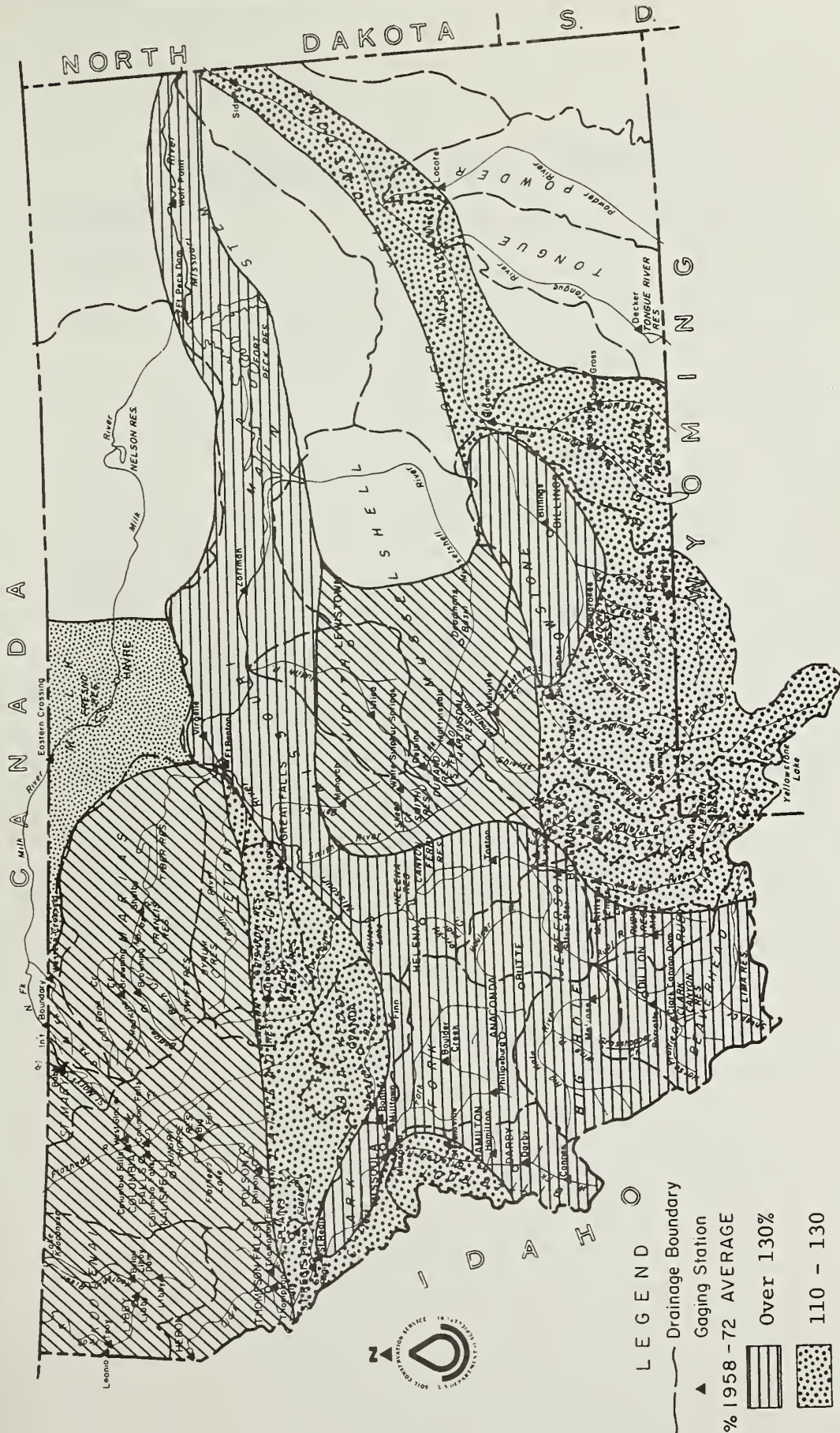
Milk

Beaver Creek	3950	48	20.9	9-30	6.5	8.5	7.2
Rocky Boy	4700	36	10.1	9-30	6.2	9.2	7.4

Yellowstone

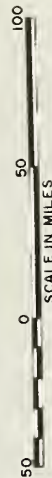
Battle Ridge	6020	48	17.6	9-28	8.7	9.7	9.8
Northeast Entrance	7350	48	9.4	9-27	7.3	4.1	6.3
PMC Dryland	3700	48	20.7	9-27	5.0	4.6	-

† Average for period of record.



MONTANA

1976 April through September streamflow based on provisional data provided by USGS, USBR, SCS, and others.



1976 SNOW COVER COMPARISONS - PERCENT AVERAGE

<u>DRAINAGE</u>	<u>JAN. 1</u>	<u>FEB. 1</u>	<u>MAR. 1</u>	<u>APR. 1</u>	<u>MAY 1</u>
Kootenai	115	83	99	109	105
Flathead	88	91	97	102	99
Upper Clark Fork	152	125	119	119	123
Lower Clark Fork	105	99	107	114	108
Bitterroot	138	121	125	128	120
Jefferson	128	114	118	121	130
Madison	146	120	121	124	128
Gallatin	143	118	110	112	114
Missouri Main Stem	145	112	111	105	120
Judith-Musselshell	141	106	99	102	95
Marias-Teton-Sun	91	89	106	103	118
Milk	56	76	77	82	71
Yellowstone (at Big Horn)	155	126	119	122	125
Little Big Horn	-	127	102	110	105
St. Mary's	-	-	-	-	94

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average
<u>COLUMBIA RIVER BASIN</u>					
Kootenai	Koocanusa	5,694.0	5,604.0	5,420.0	-
Flathead	Hungry Horse	3,428.0	3,450.0	3,345.0	3,293.0
	Flathead Lake	1,791.0	1,656.0	1,718.0	1,738.0
	Camas (4)	45.2	15.1	15.0	21.4
	Mission Valley (8)	100.3	40.3	41.7	22.7
Clark Fork	Georgetown Lake	31.0	30.9	30.9	28.4
	Lower Willow Creek	4.9	1.6	2.8	1.2
	Nevada Creek	12.6	-	-	4.8
	Noxon Rapids	334.6	161.0	328.3	323.7
Bitterroot	Como	34.9	-	-	1.7
	Painted Rocks	31.7	9.6	29.6	26.5

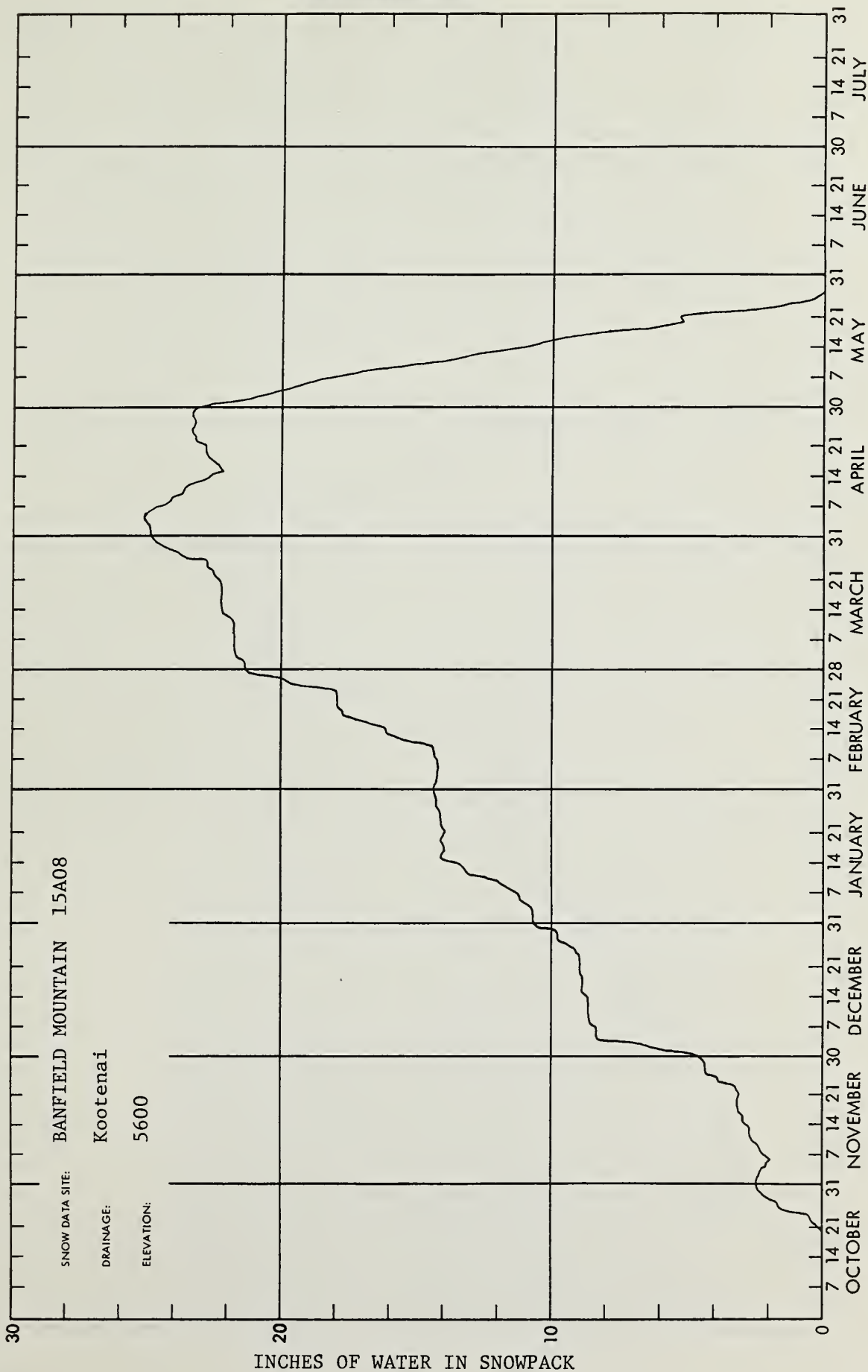
MISSOURI RIVER BASIN

Beaverhead	Clark Canyon	328.9	158.0	170.6	125.6
	Lima	84.0	37.2	37.8	27.1
Ruby	Ruby	38.8	12.0	16.8	10.8
Madison	Hebgen Lake	377.5	371.1	362.9	315.9
	Ennis Lake	41.0	38.2	37.6	36.4
Gallatin	Middle Creek	8.0	3.5	3.4	2.9
Missouri	Canyon Ferry	2,043.0	1,803.0	1,908.0	1,742.0
	Hauser & Helena	61.9	62.5	59.6	58.7
	Lake Helena	10.4	10.7	9.6	10.3
	Holter Lake	81.9	77.0	80.2	75.4
	Smith River	10.6	6.8	-	4.8
	Bair	7.0	3.5	-	3.0
	Martinsdale	23.1	15.2	-	7.8
	Deadman's Basin	72.2	40.6	-	32.5
	Fort Peck Lake	19,140.0	17,630.0	18,220.0	14,550.0
Sun	Gibson	99.0	43.5	61.6	31.0
	Willow Creek	32.2	26.5	24.3	17.7
	Pishkun	32.0	17.5	17.2	16.4
Marias	Lower Two Medicine	11.9	-	11.7	-
	Four Horns	19.2	-	13.3	-
	Swift	30.0	13.3	21.6	13.9
	Lake Frances	111.9	84.3	95.4	78.9
	Tiber	1,347.0	615.7	616.2	642.3
Milk	Beaver Creek	3.5	1.7	1.5	-
	Fresno	127.2	67.2	123.5	66.2
	Nelson	66.8	51.0	57.2	43.4
	Lake Sherburne	66.2	9.6	5.0	6.4
Yellowstone	Mystic Lake	21.0	19.4	19.6	20.1
	Tongue River	68.0	-	13.0	24.1
	Cooney	27.4	12.0	8.5	12.2
Bighorn	Bighorn Lake	1,356.0	1,038.0	1,018.0	977.9

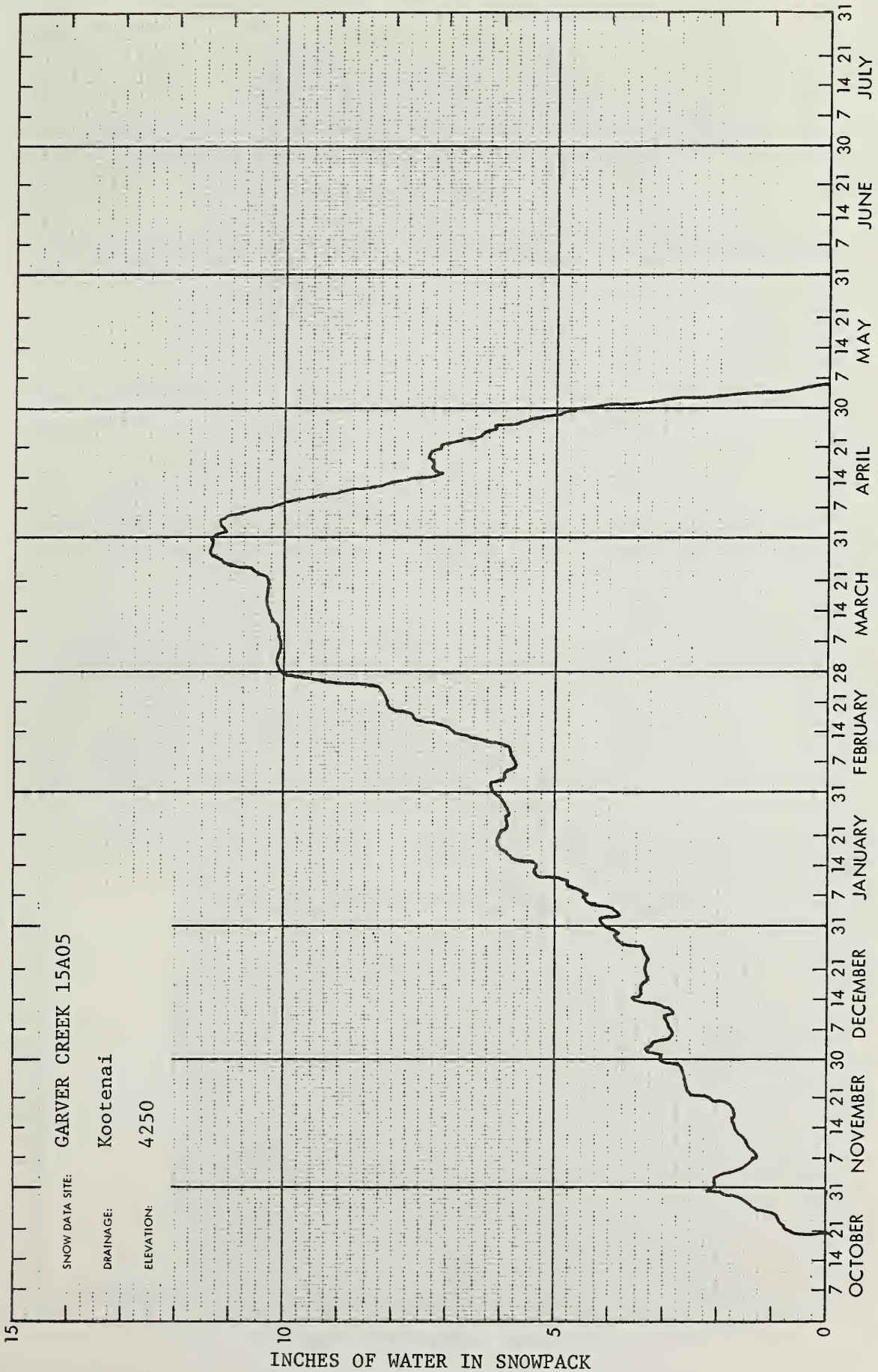
Average based on 1958-72 period.



SNOW PILLOW DATA Water Year 1976

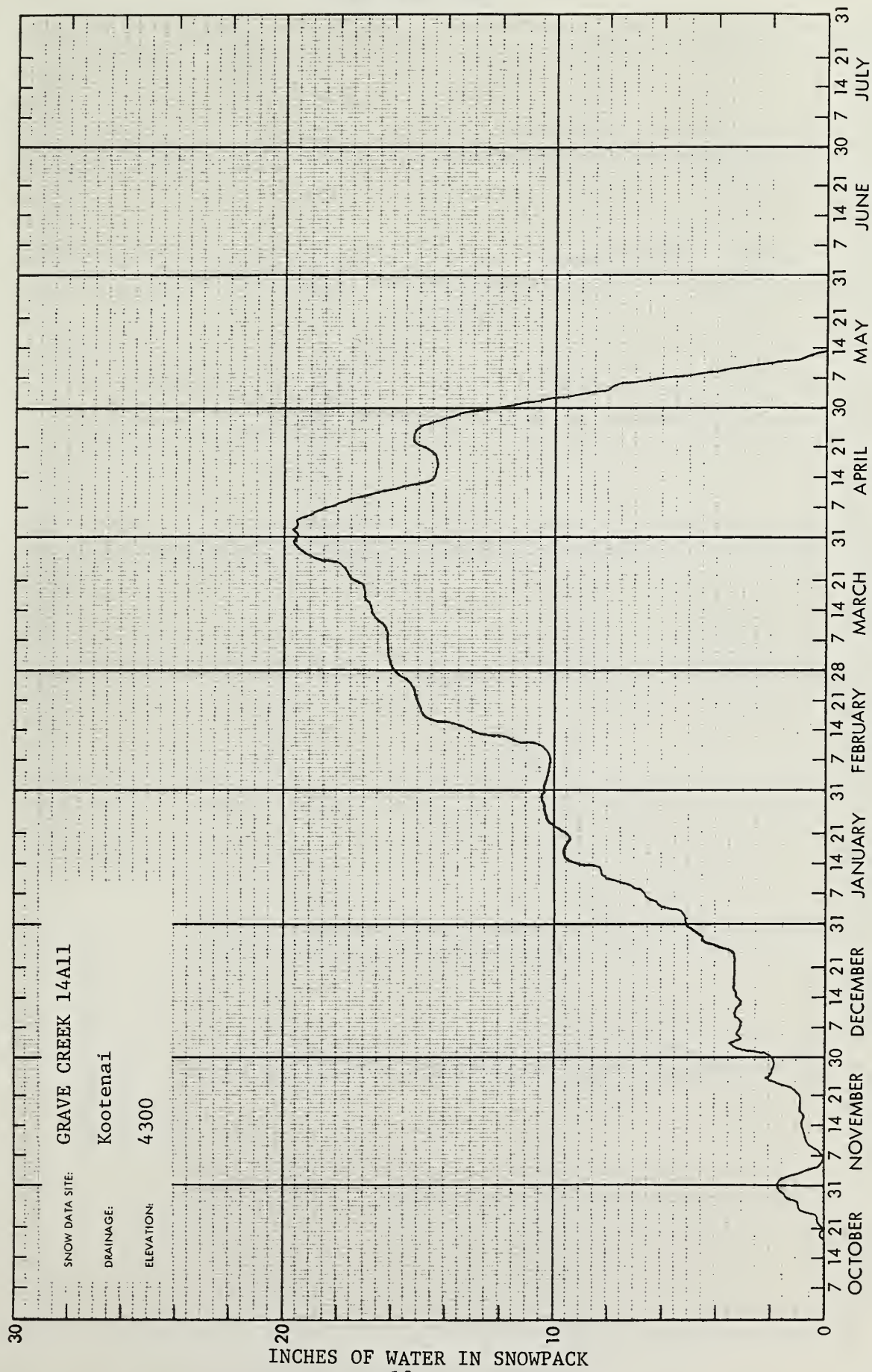


SNOW PILLOW DATA Water Year 1976



SNOW PILLOW DATA Water Year 1976

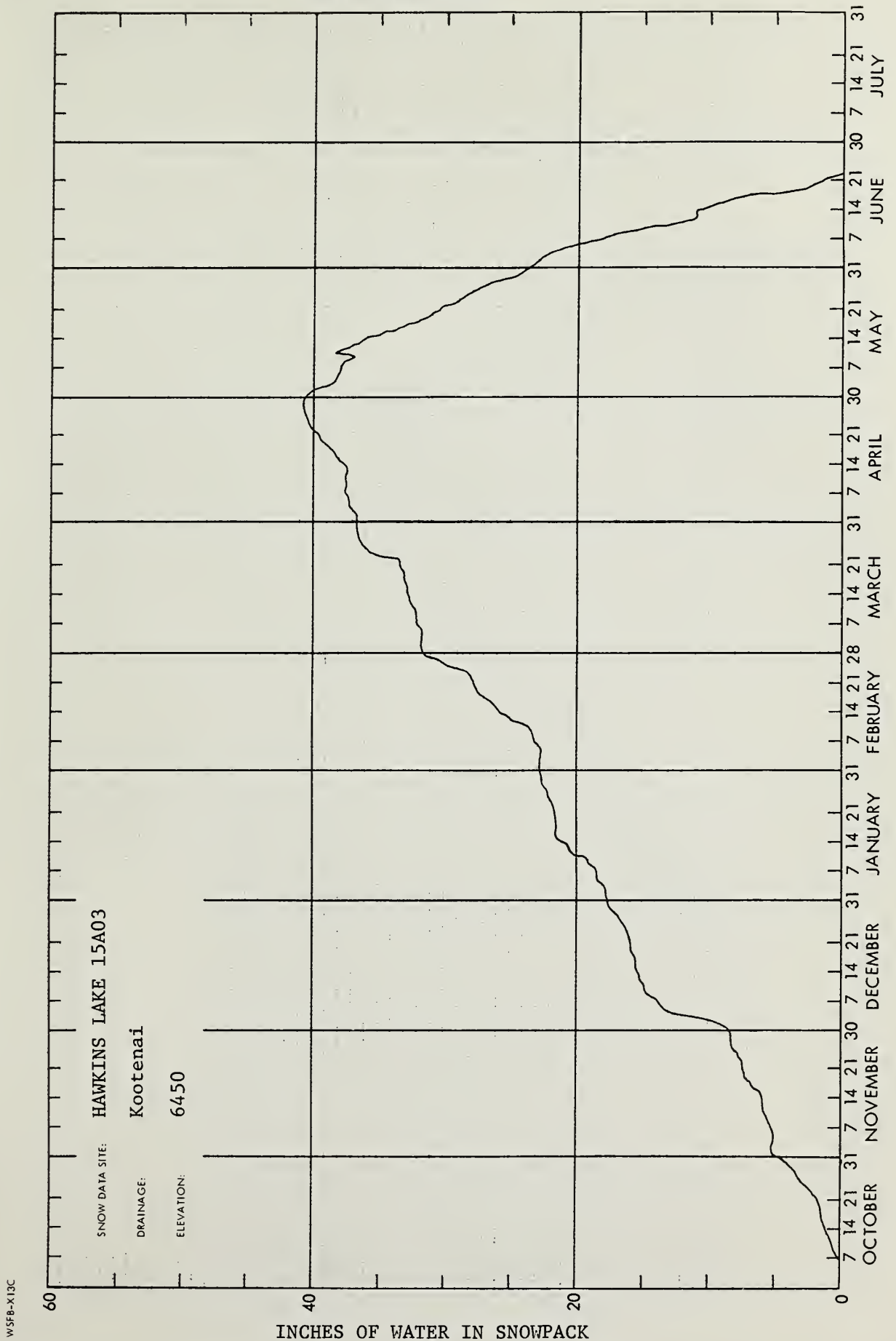
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INCHES OF WATER IN SNOWPACK
-12-

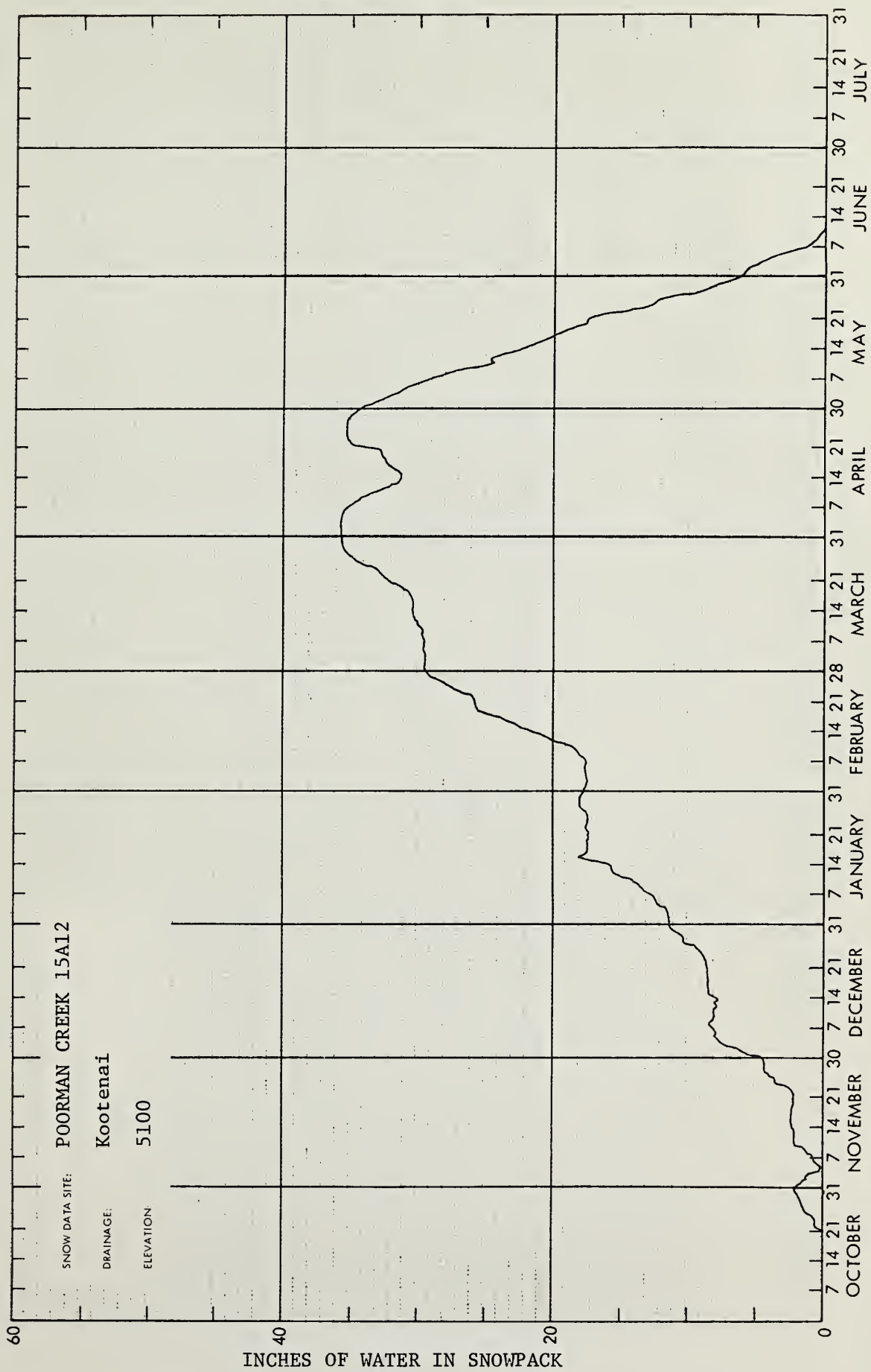
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SNOW PILLOW DATA Water Year 1976





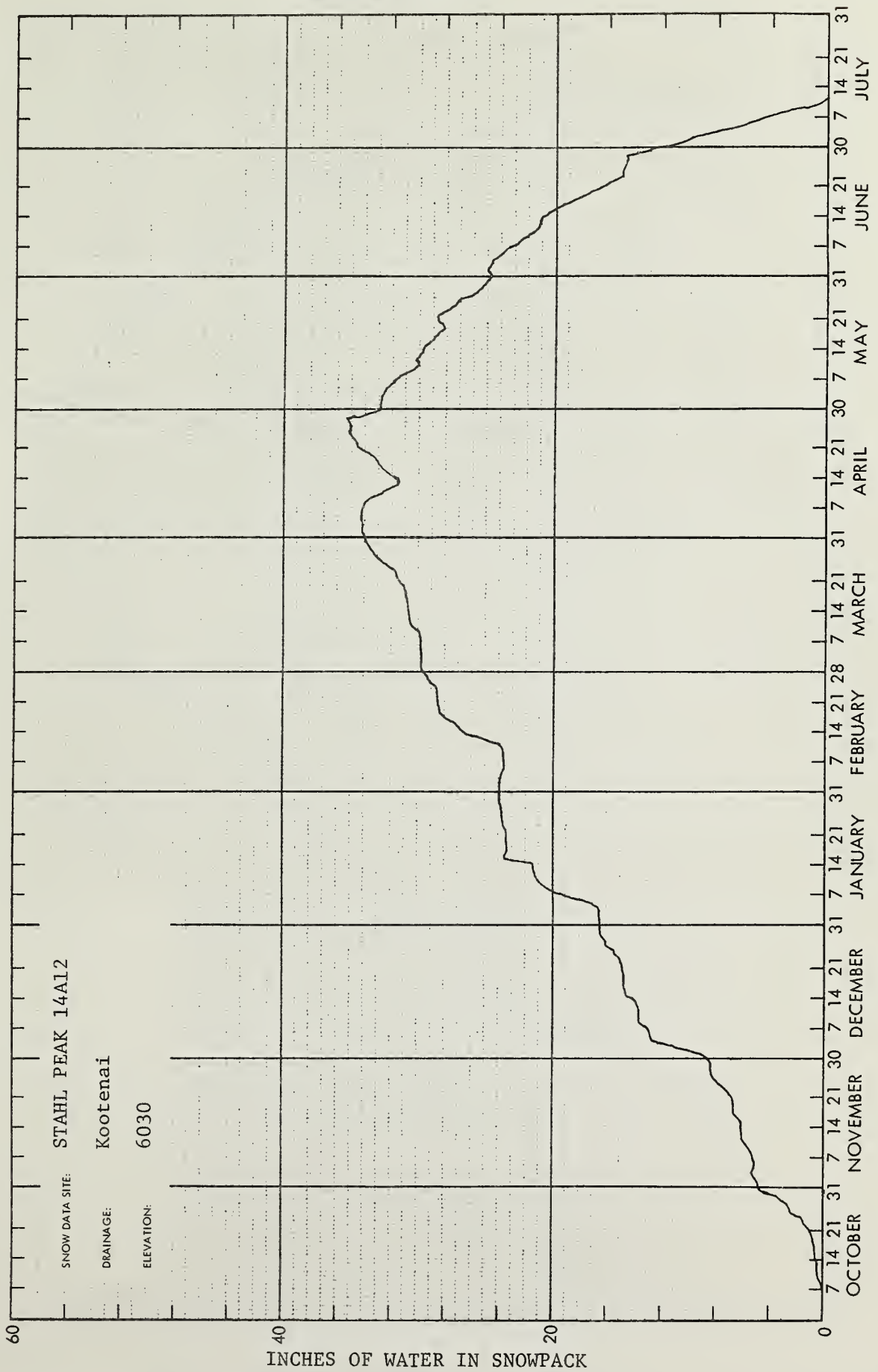
SNOW PILLOW DATA Water Year 1976



INCHES OF WATER IN SNOWPACK

SNOW PILLOW DATA Water Year 1976

WSFB-X13C

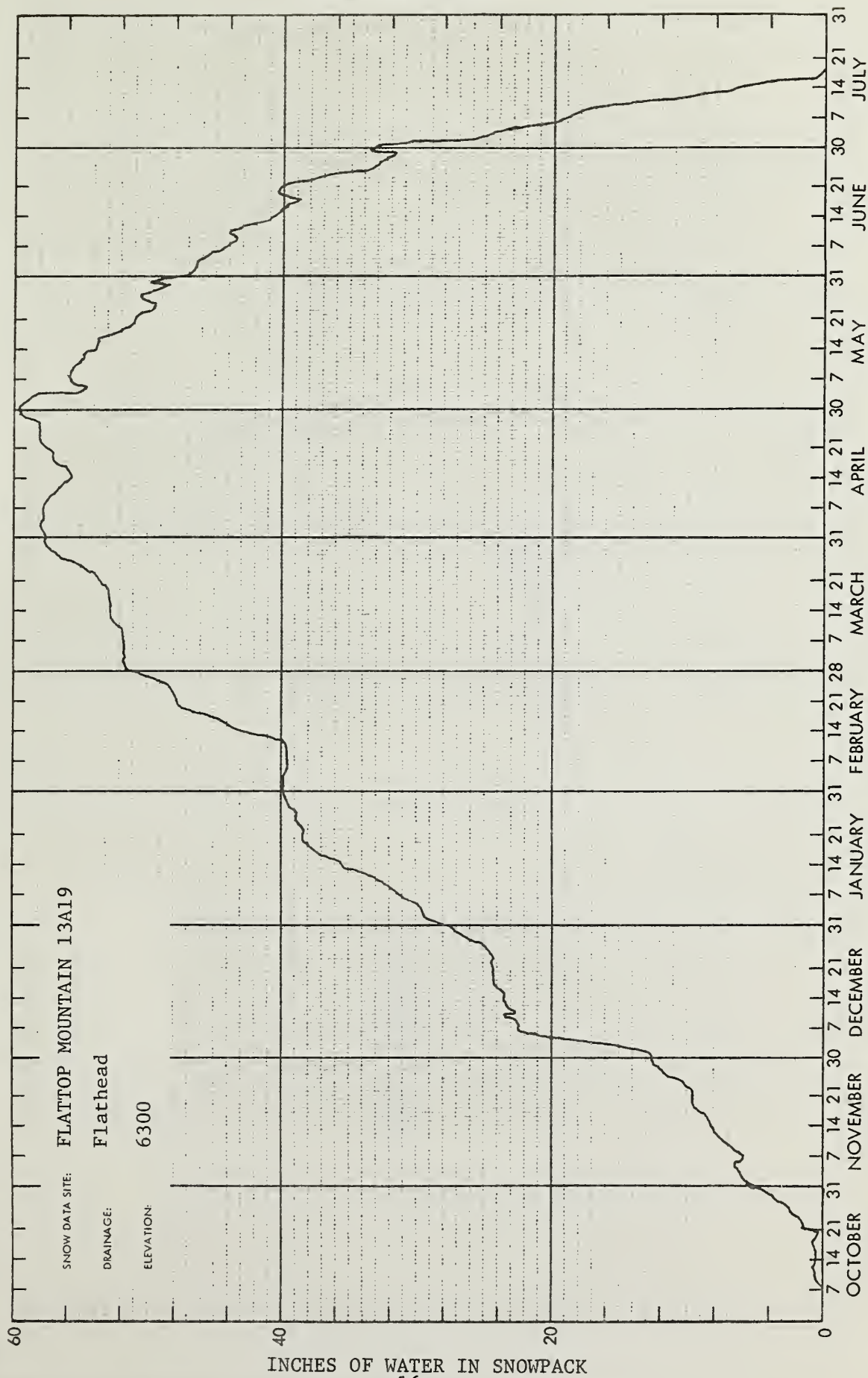


INCHES OF WATER IN SNOWPACK



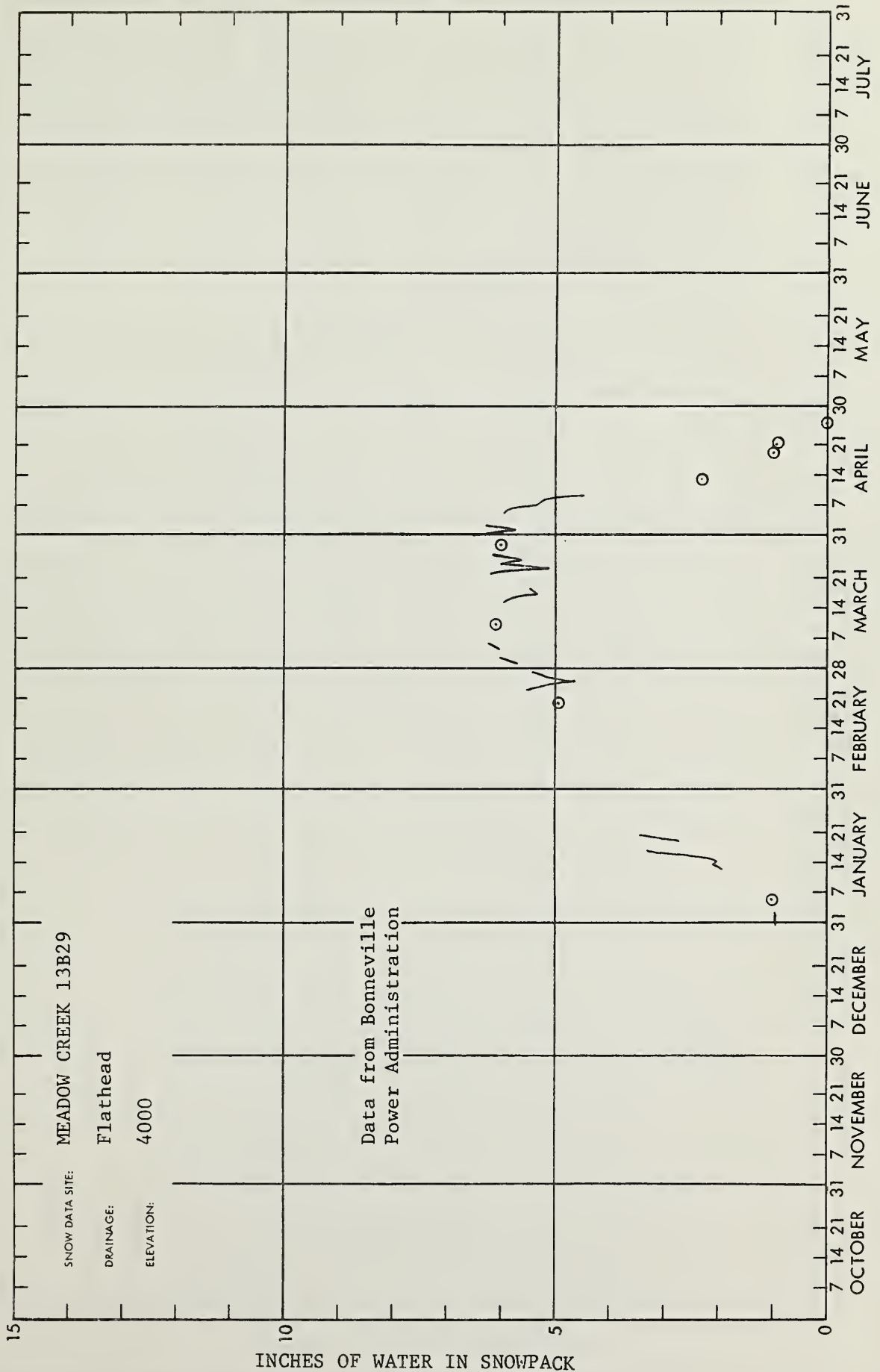
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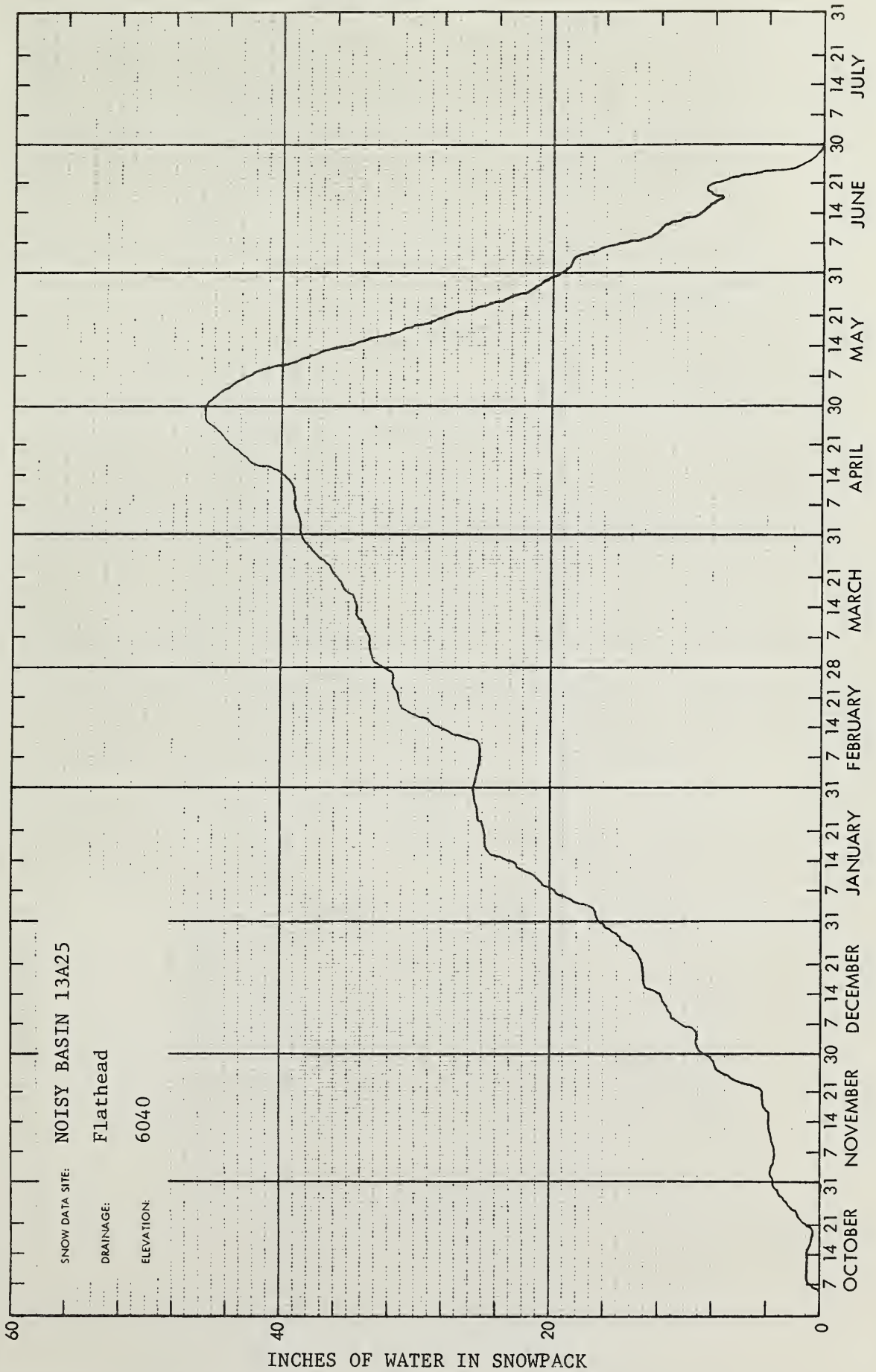
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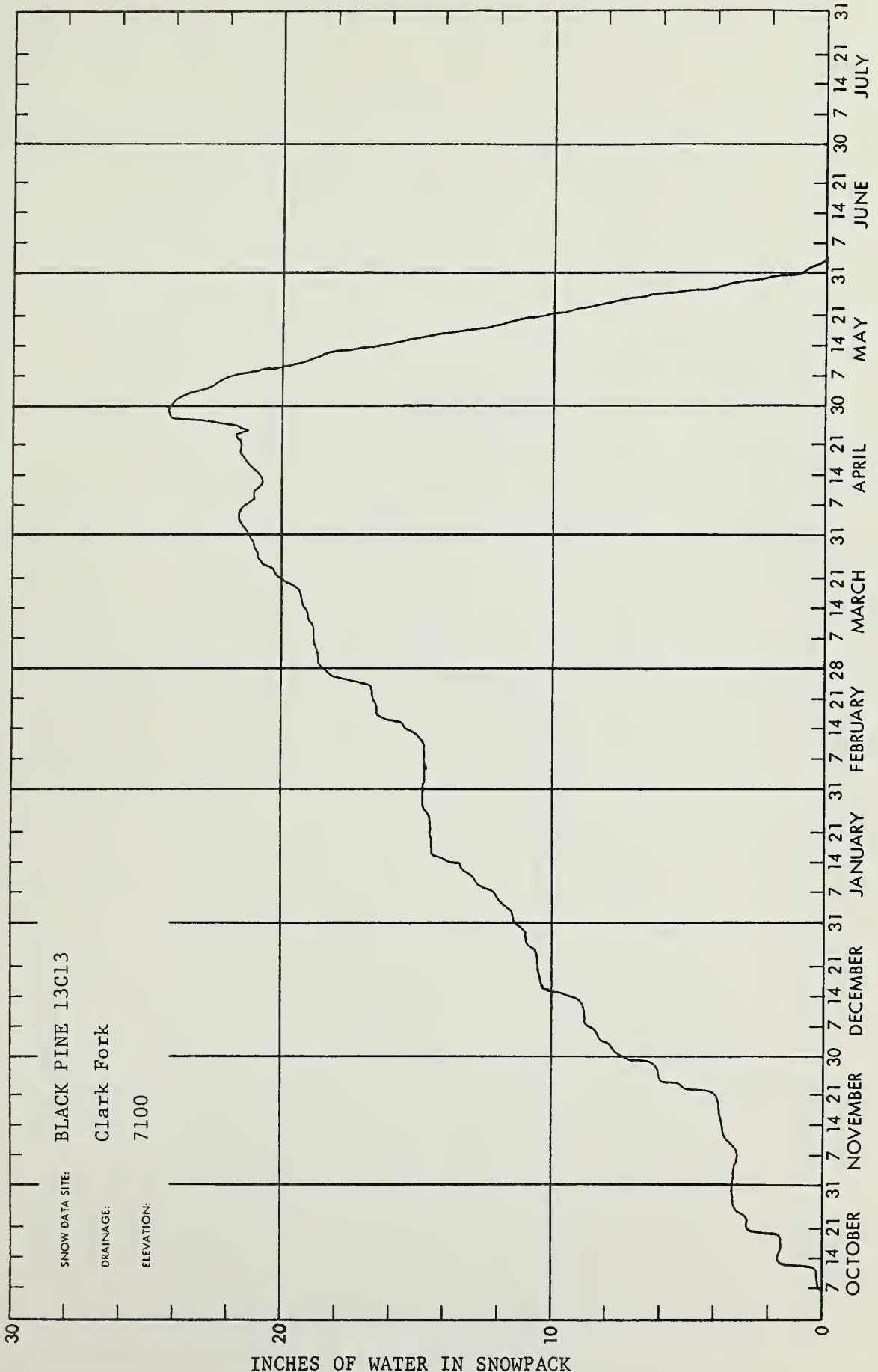
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Water Year 1976

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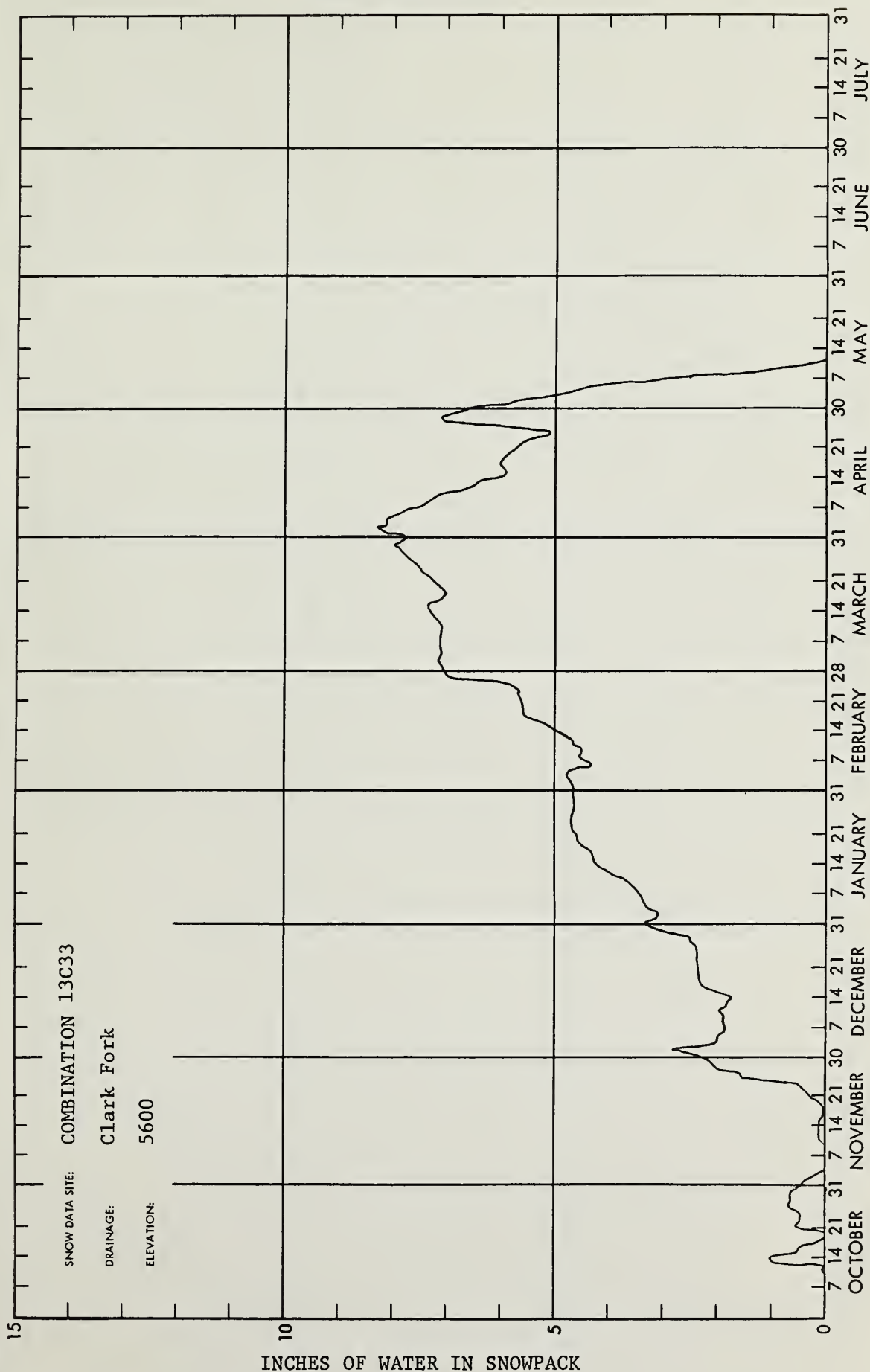


SNOW PILLOW DATA Water Year 1976

WSFB-X138

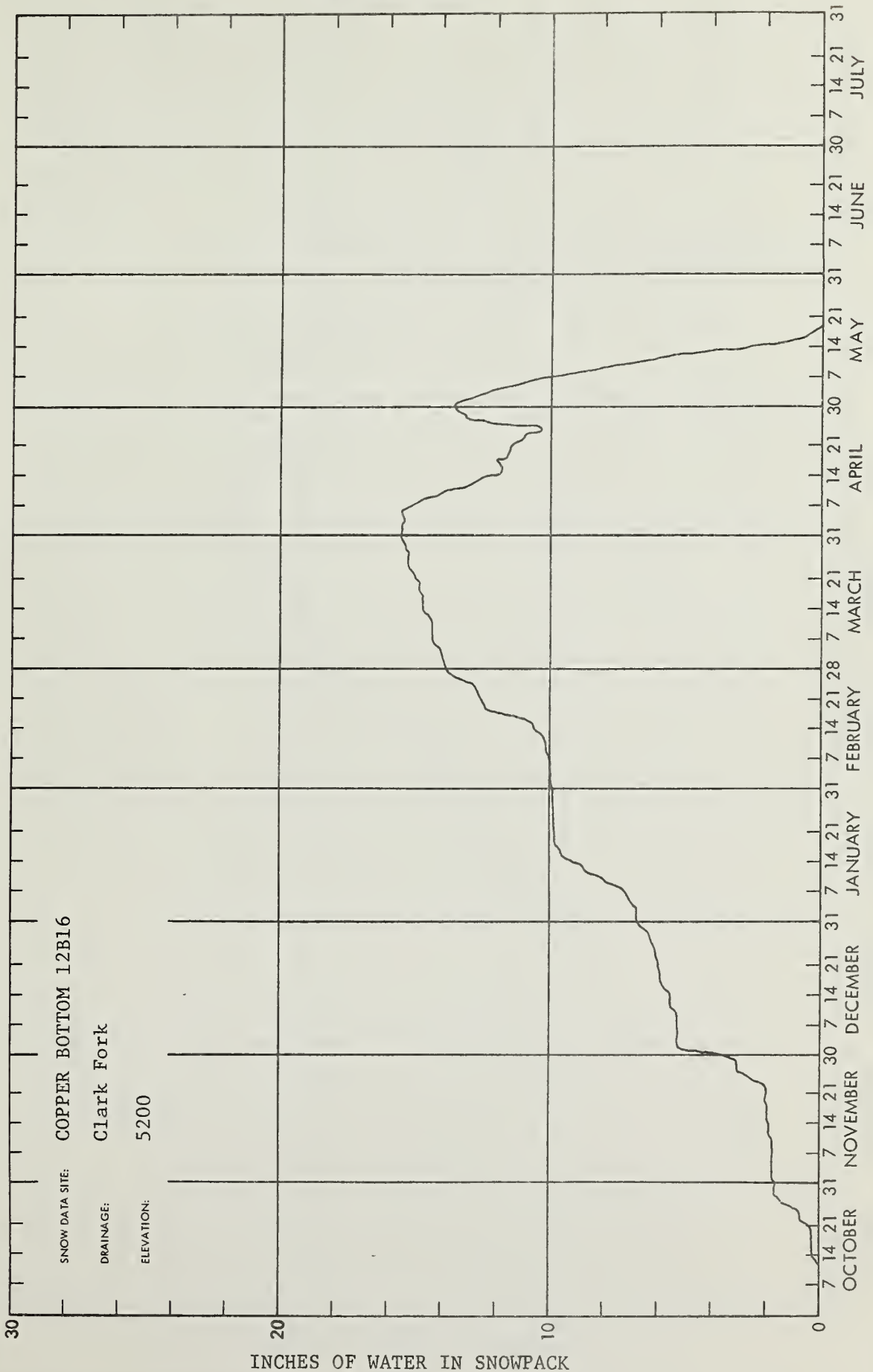


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Water Year 1976



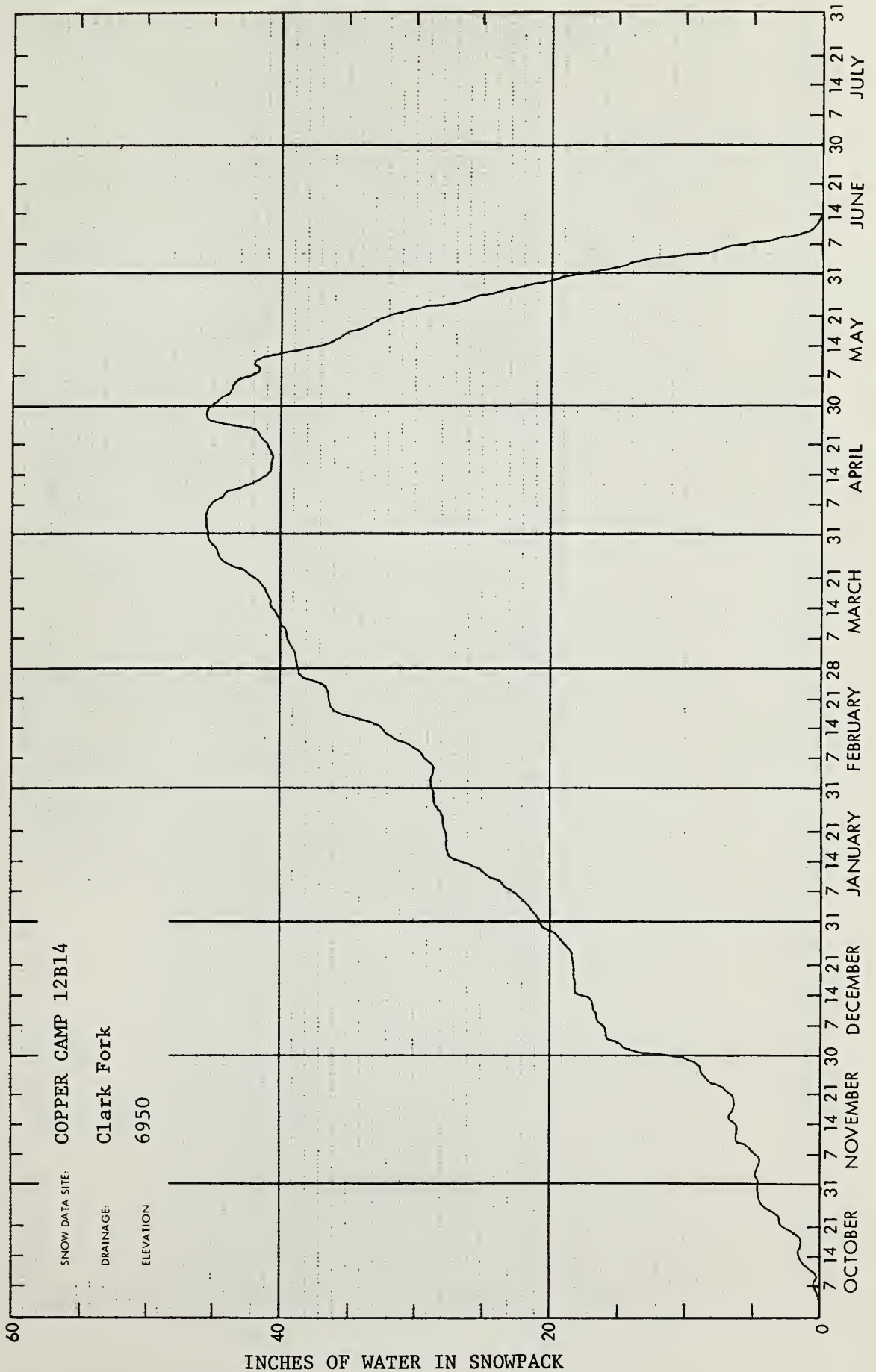
INCHES OF WATER IN SNOWPACK
-20-

SNOW PILLOW DATA
Water Year 1976

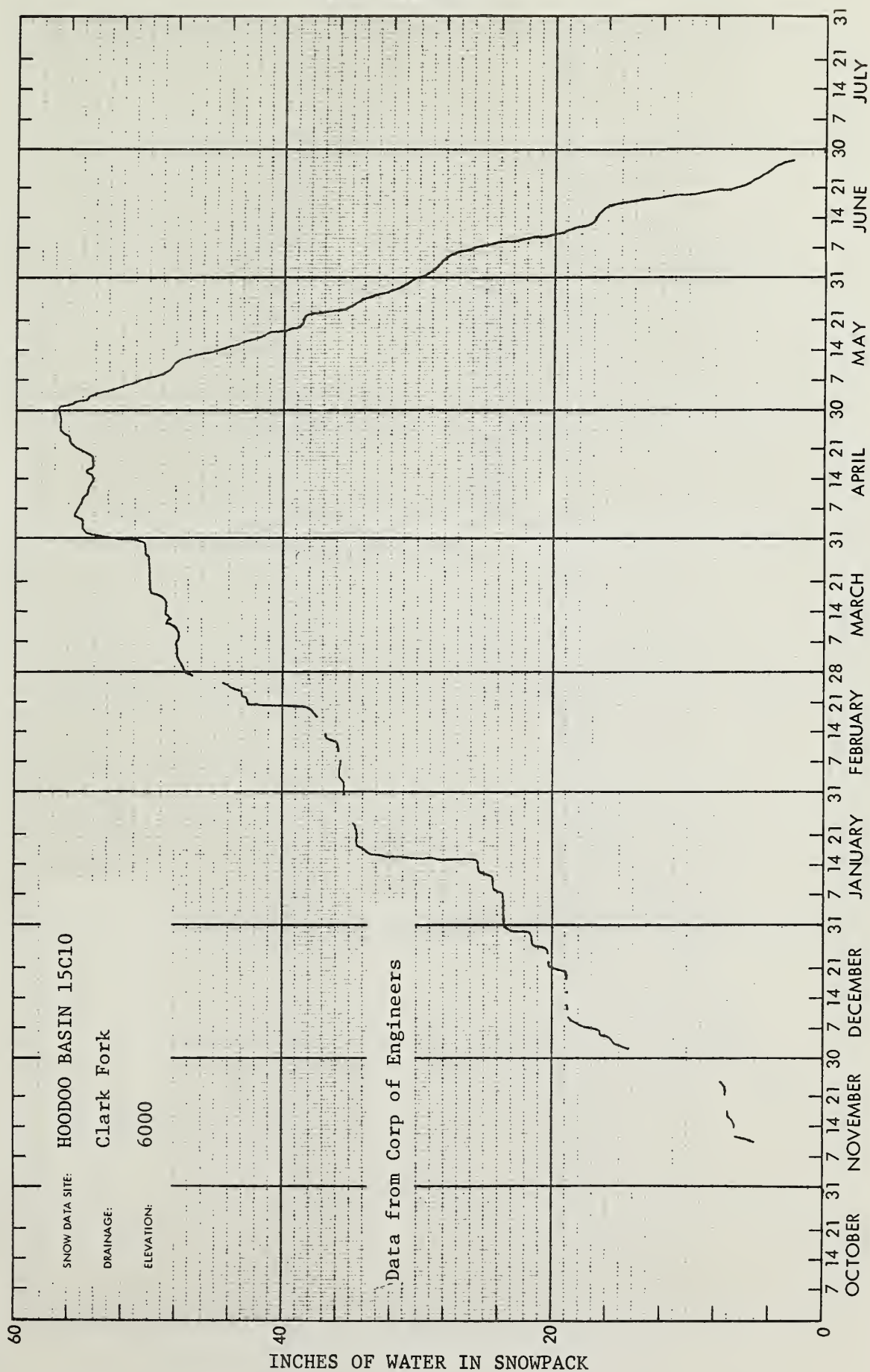




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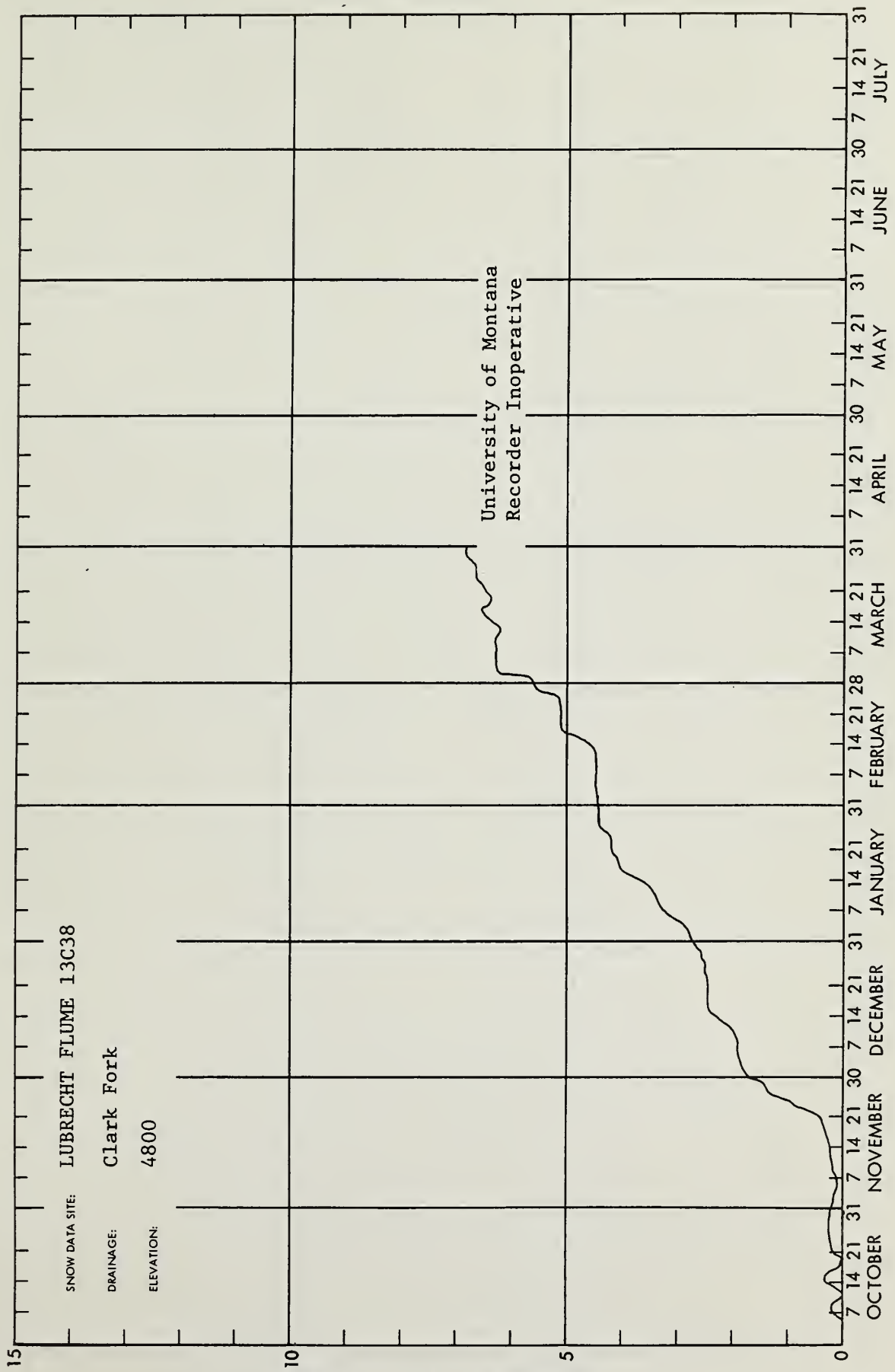


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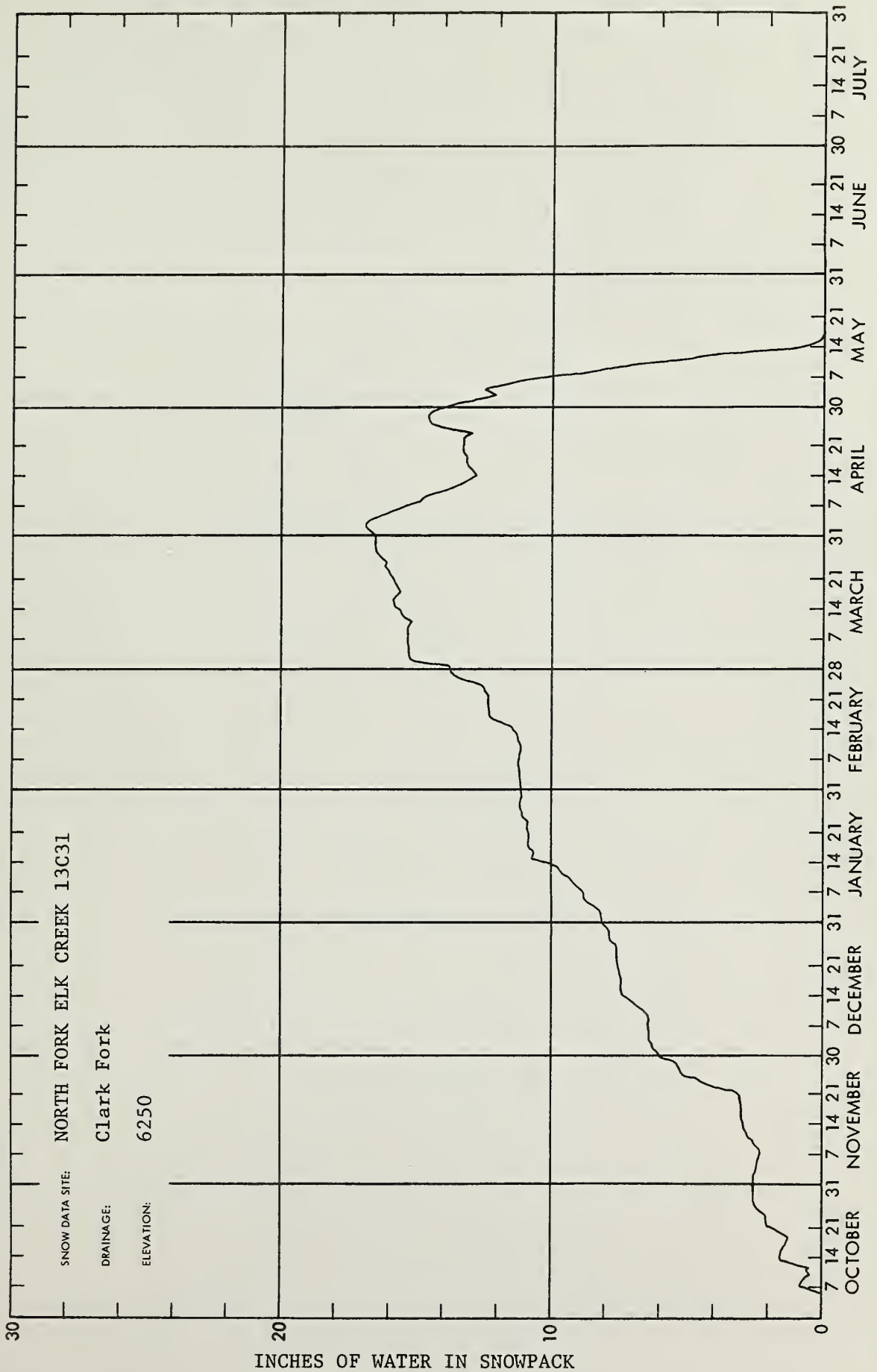


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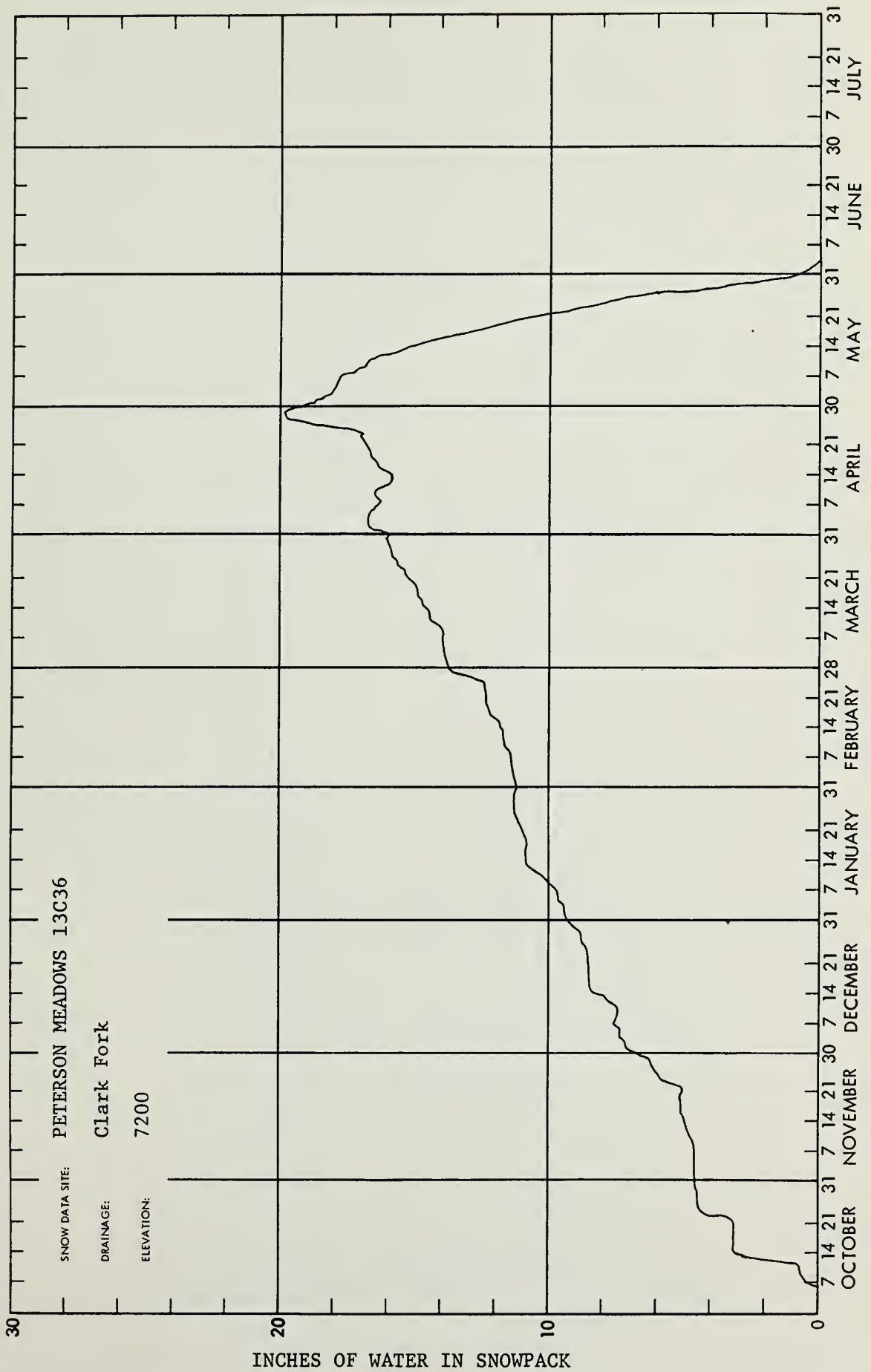


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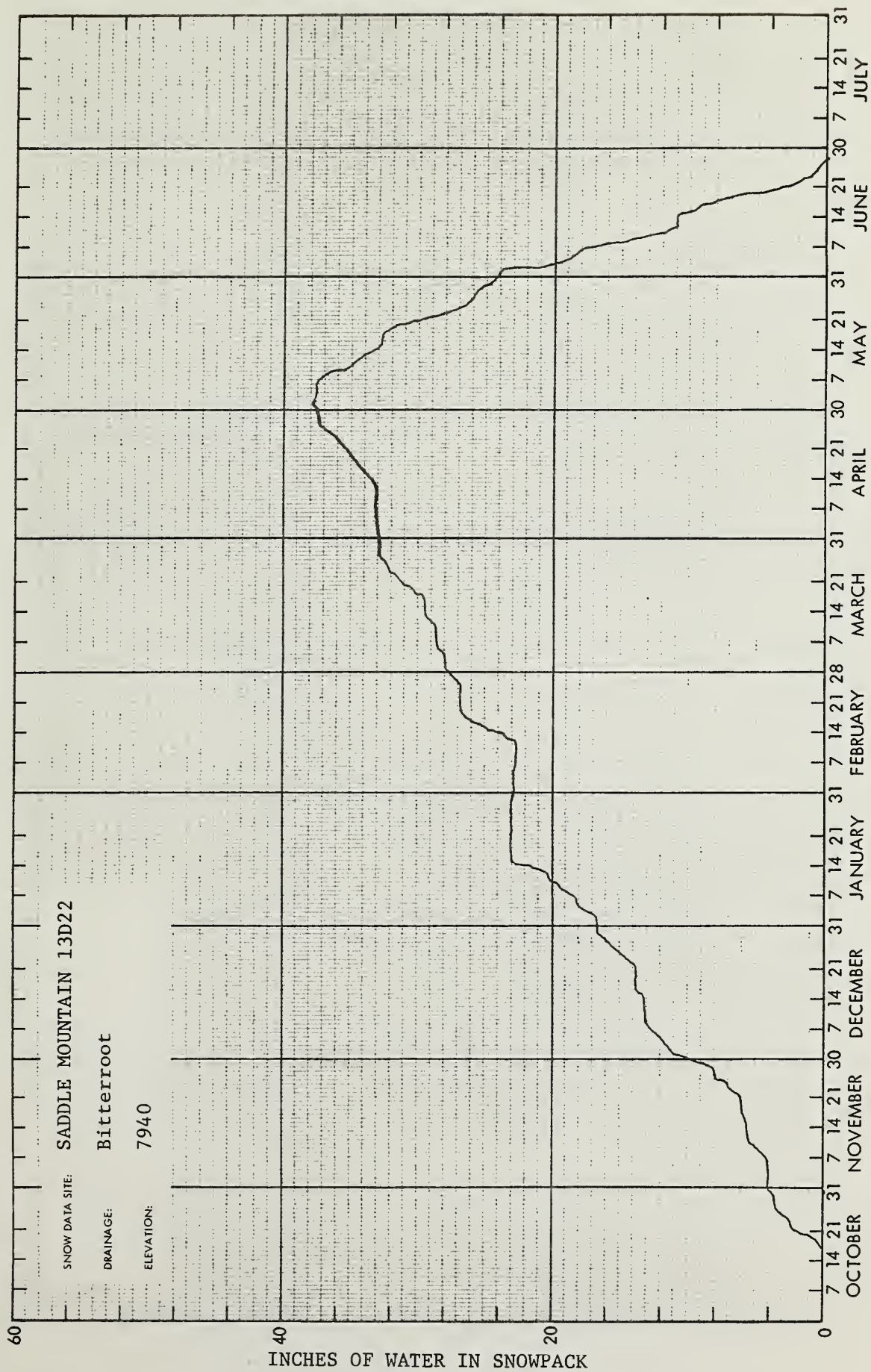


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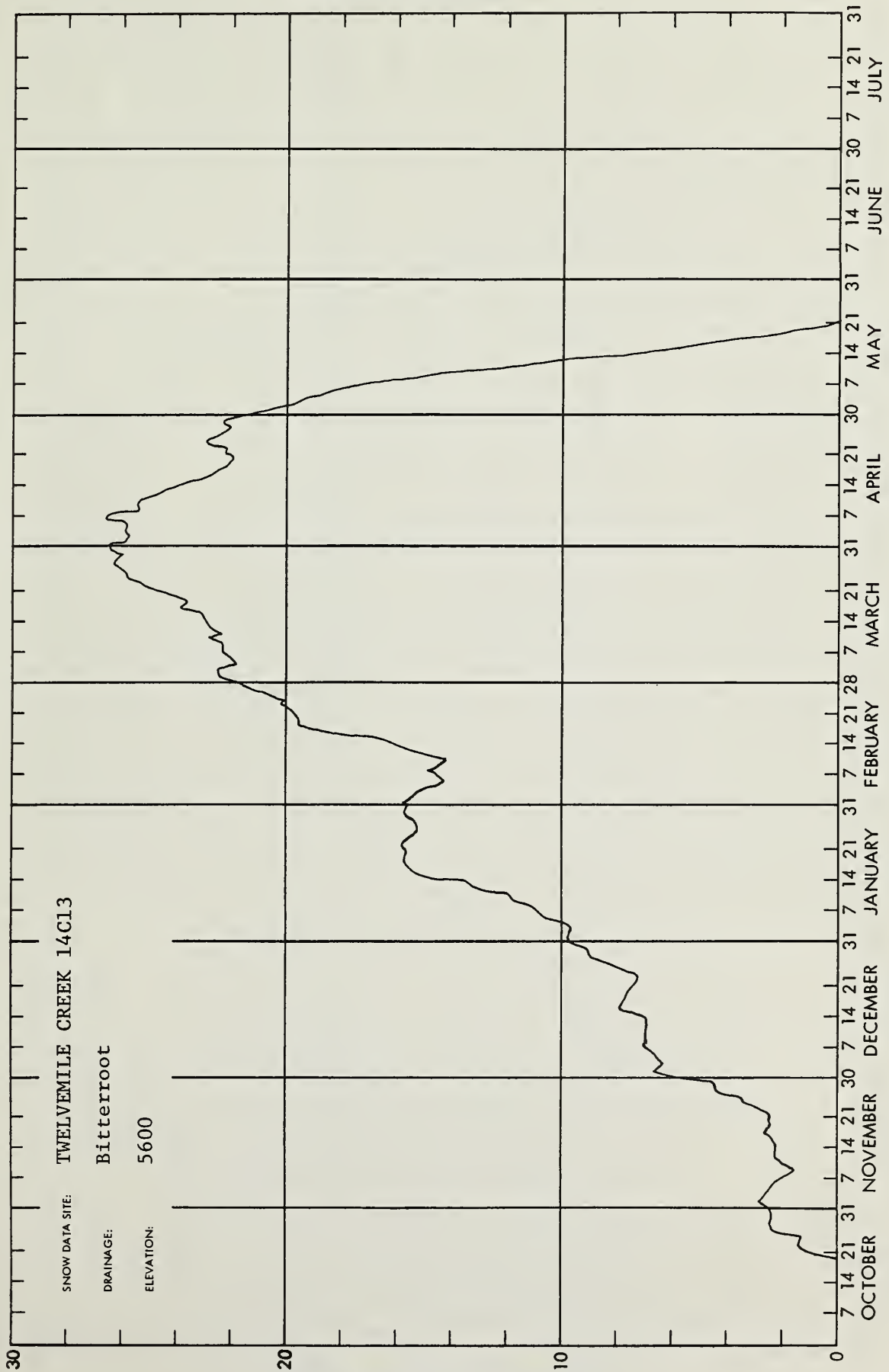


INCHES OF WATER IN SNOWPACK

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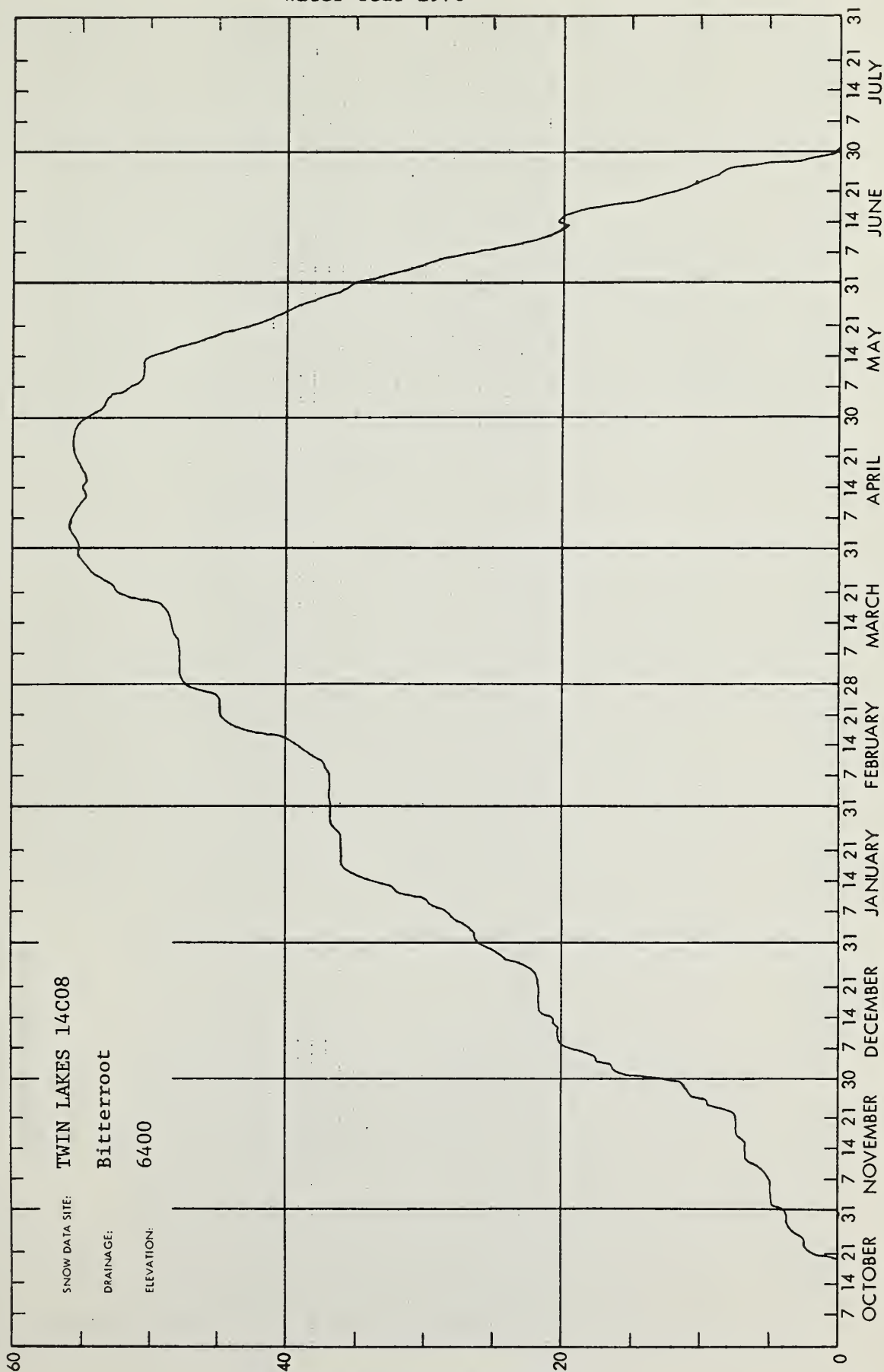
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INCHES OF WATER IN SNOWPACK



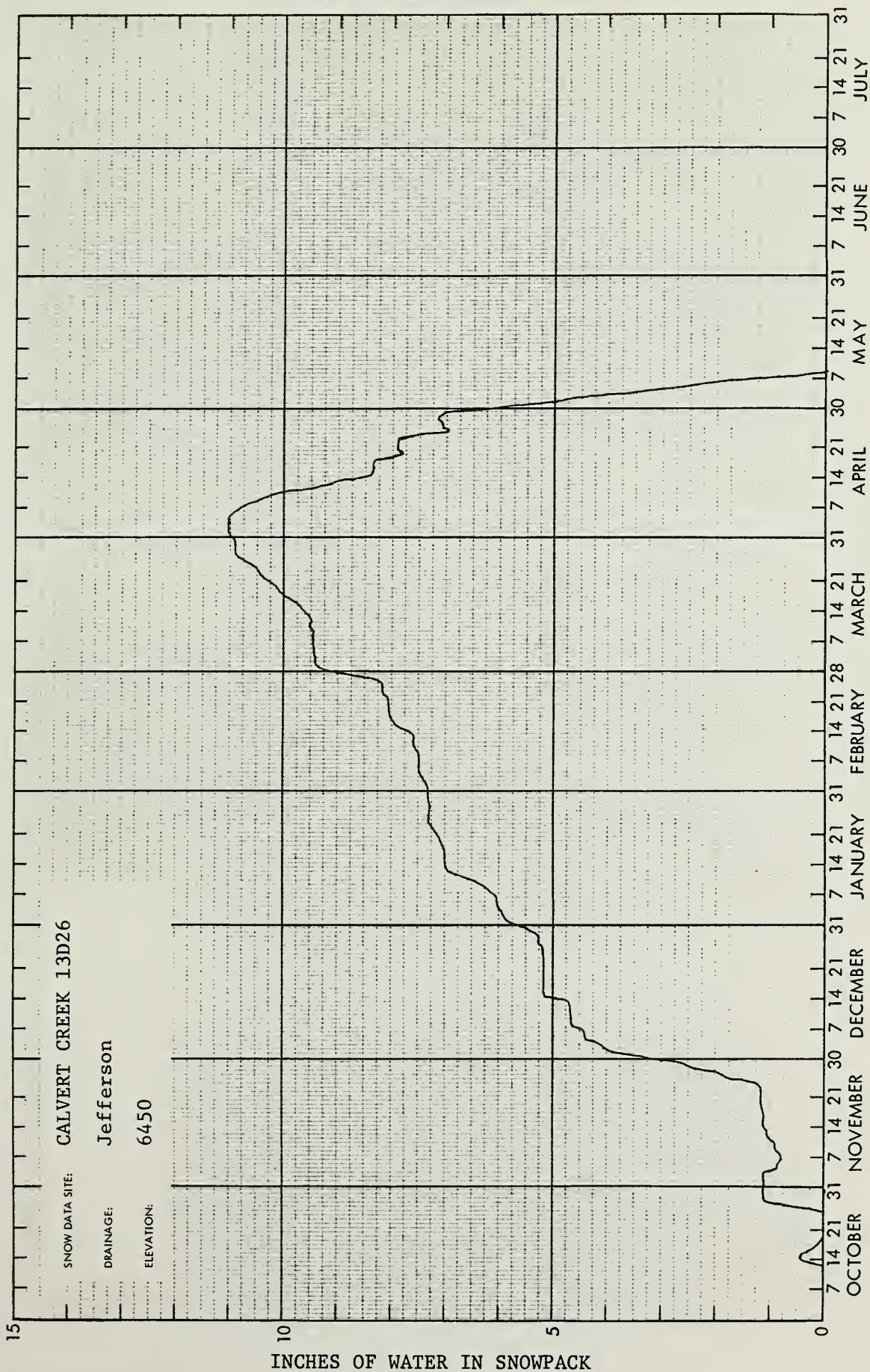
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INCHES OF WATER IN SNOWPACK

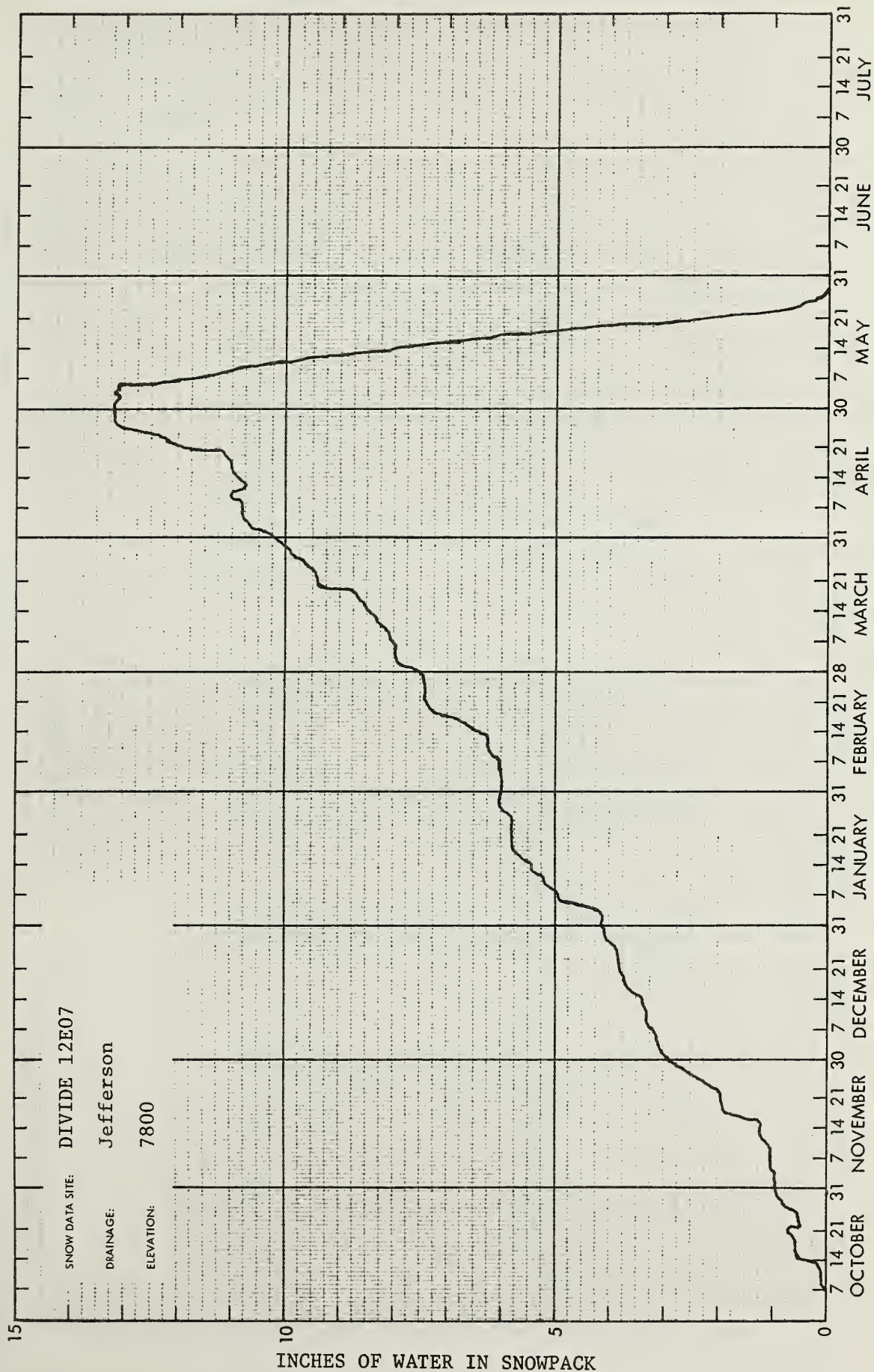


SNOW PILLOW DATA
Water Year 1976



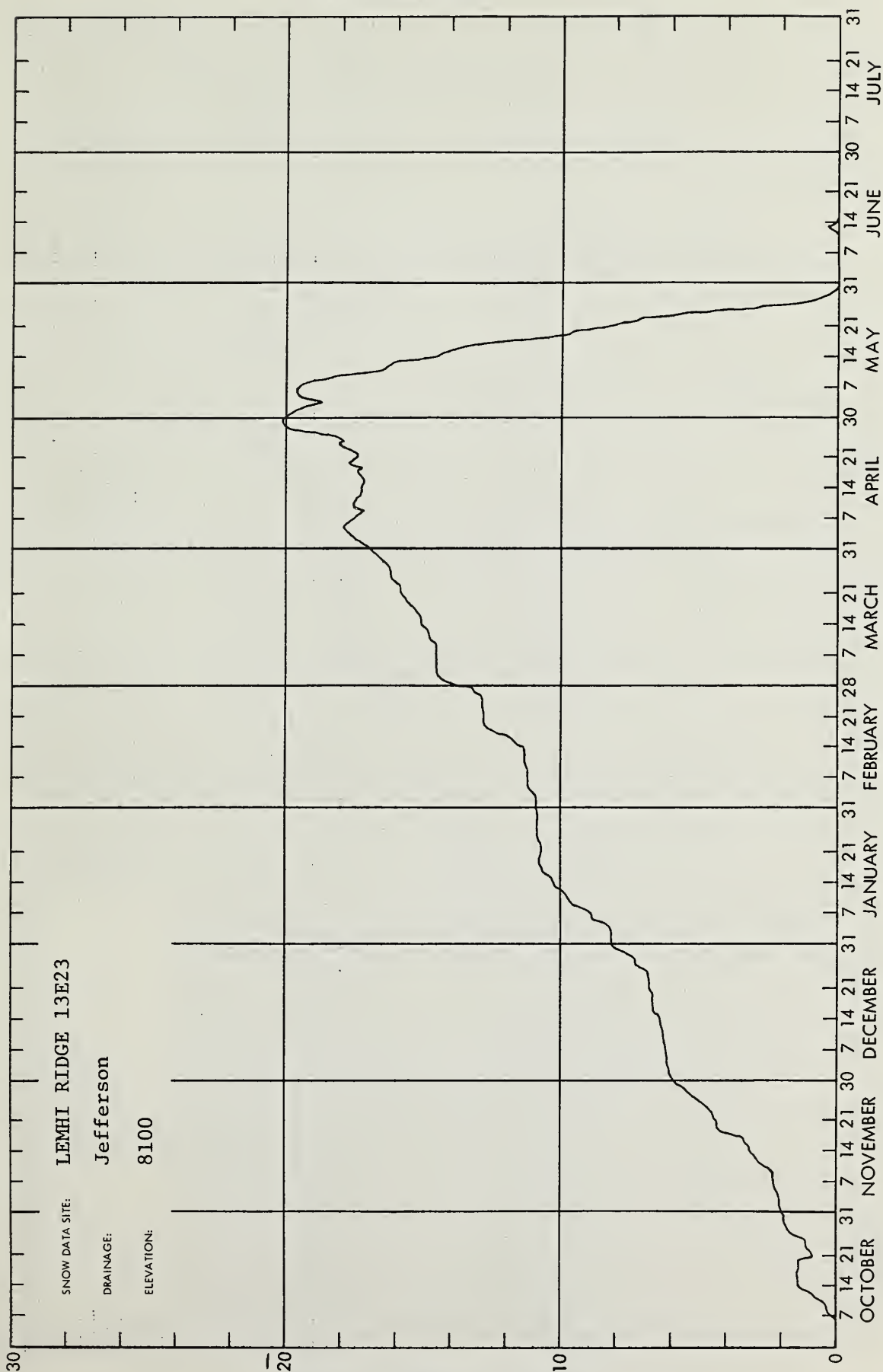


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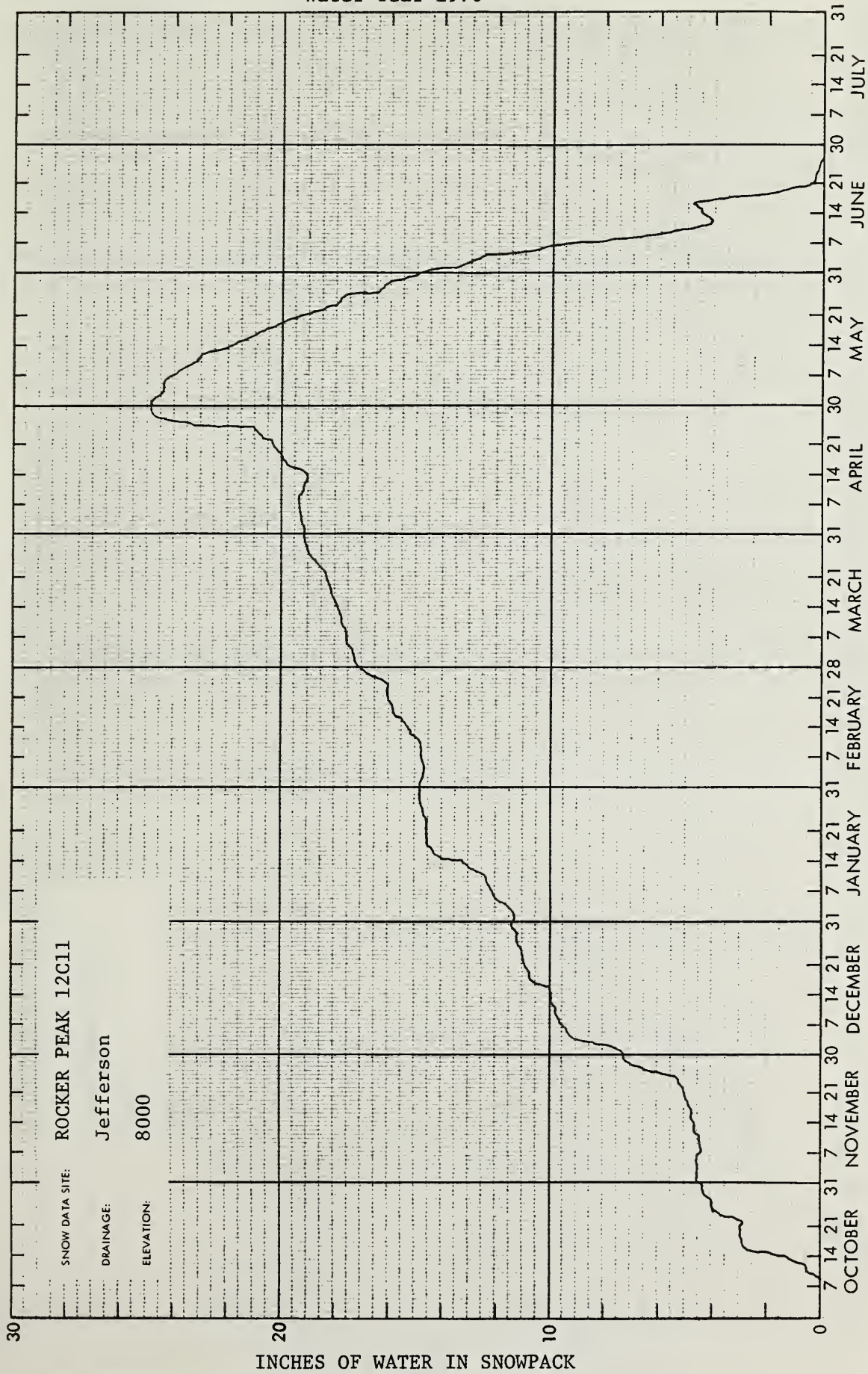


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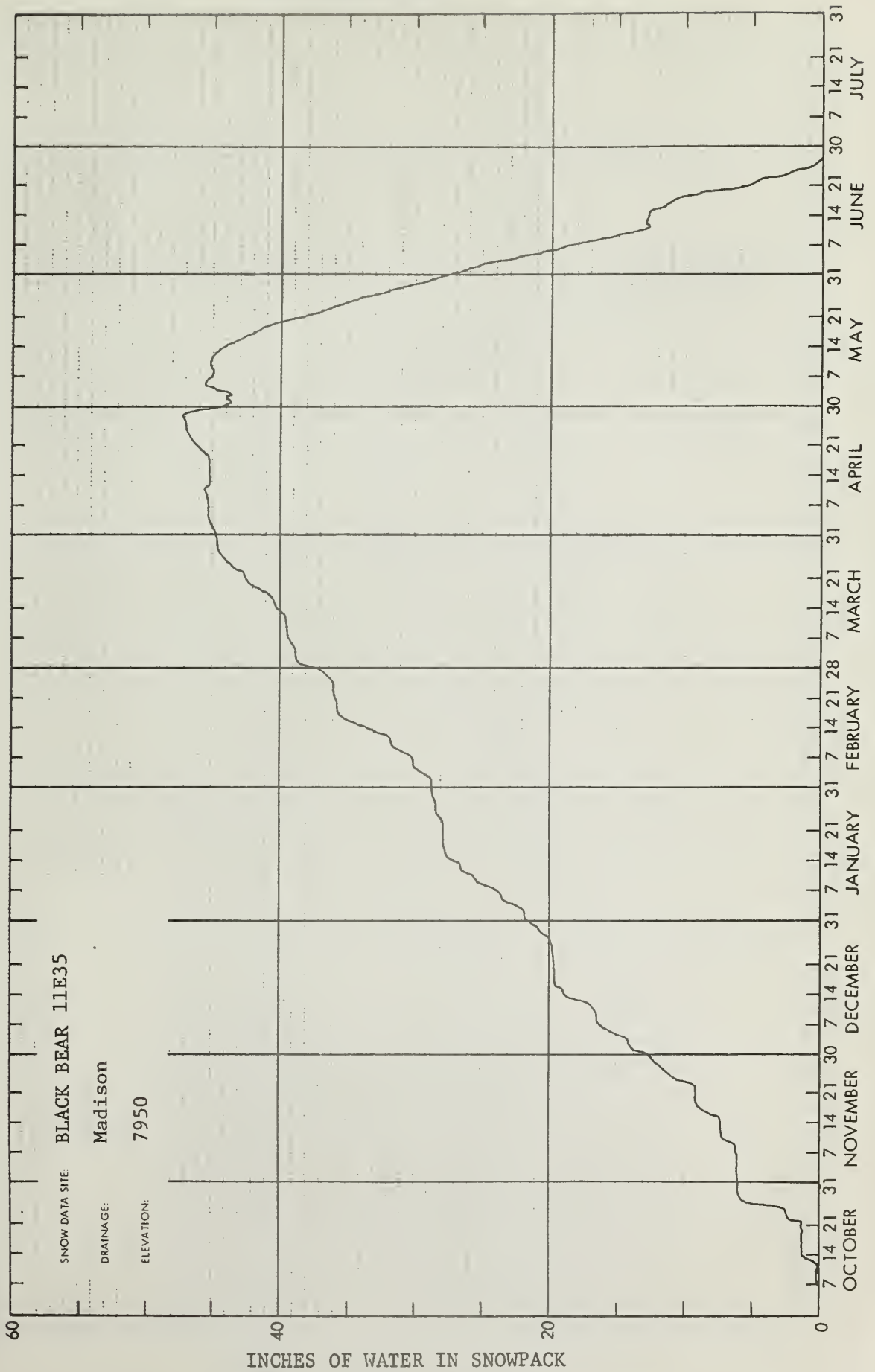




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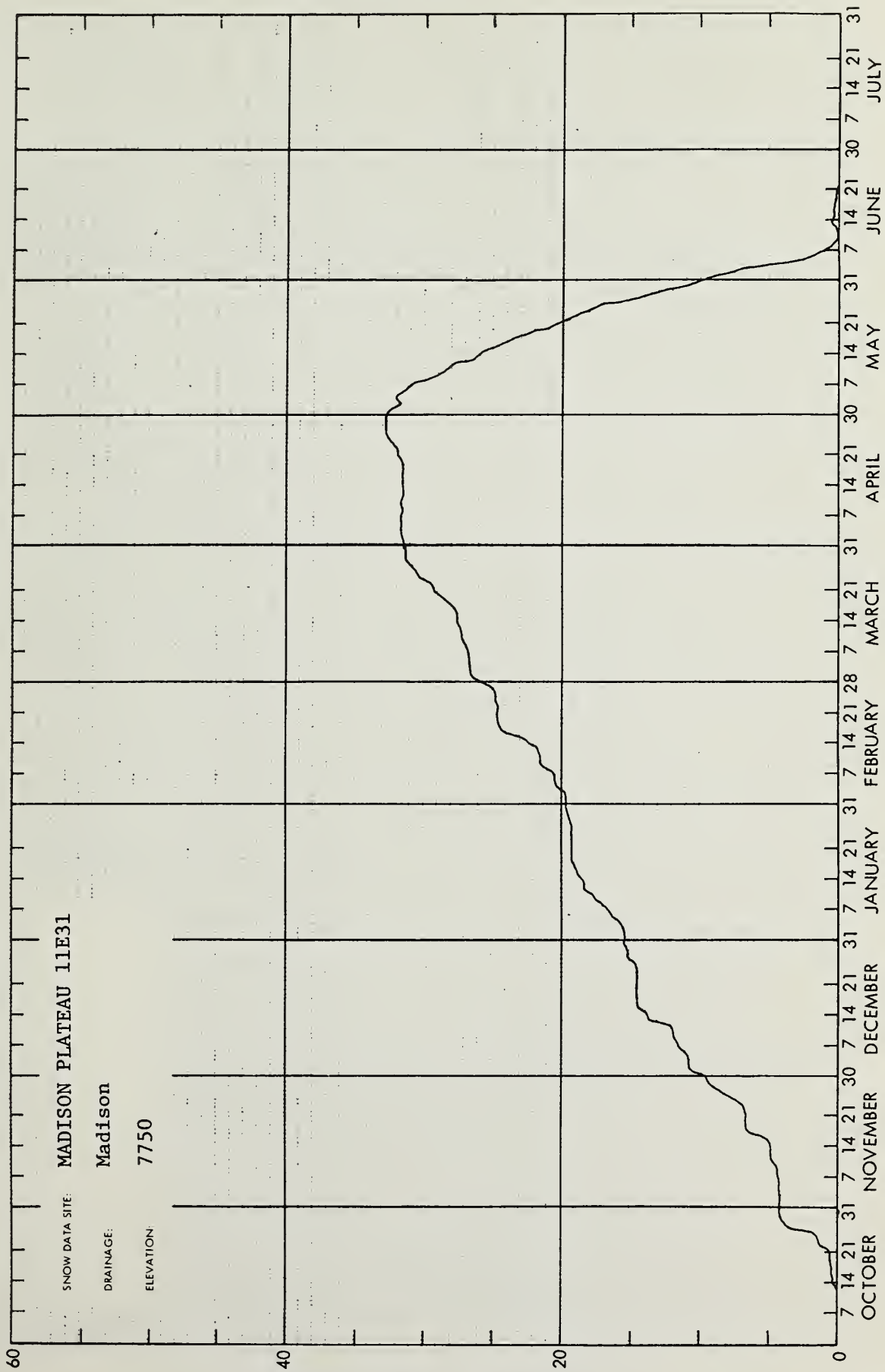
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SNOW PILLOW DATA Water Year 1976

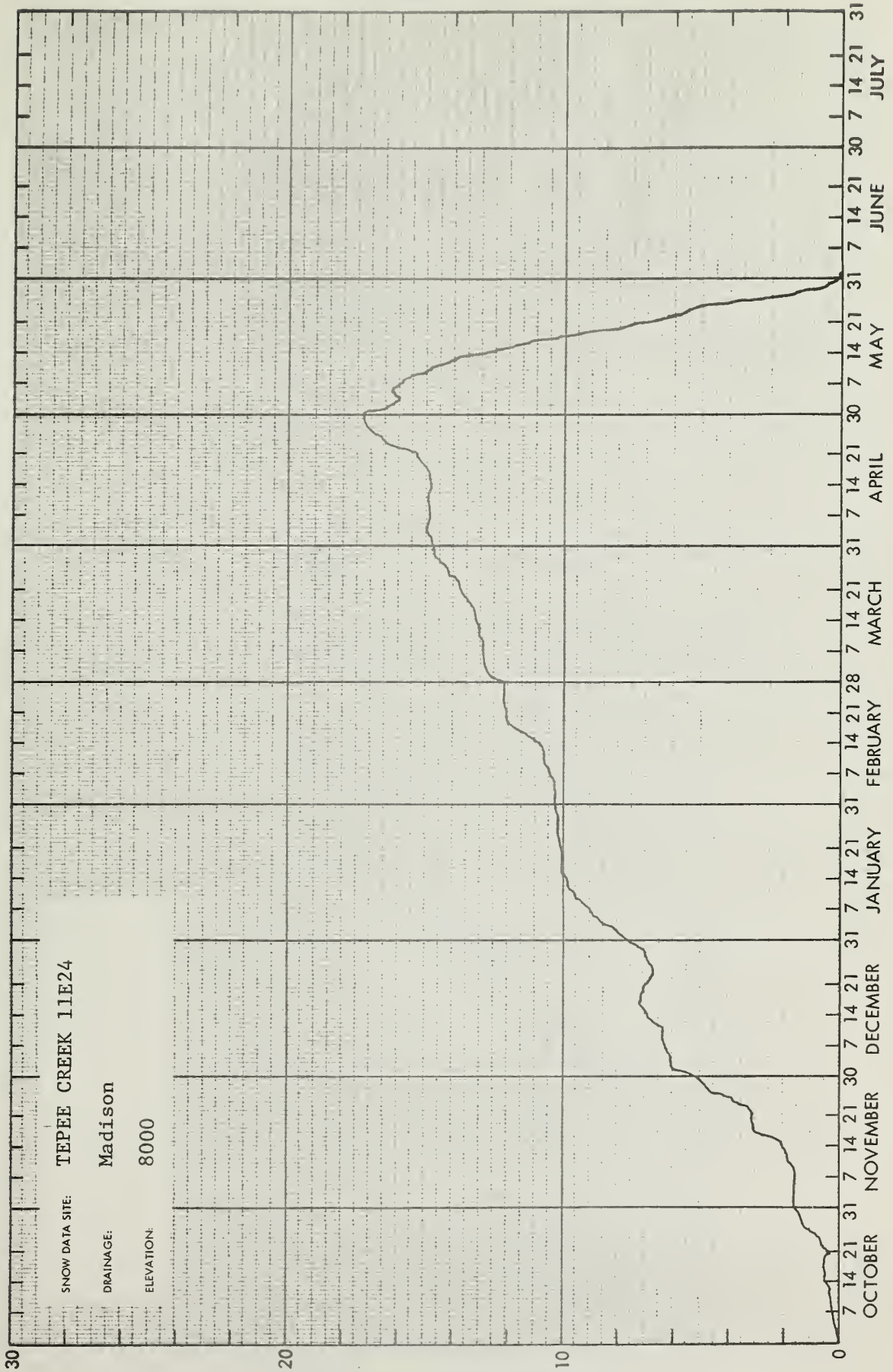
WSFB-X13C



INCHES OF WATER IN SNOWPACK

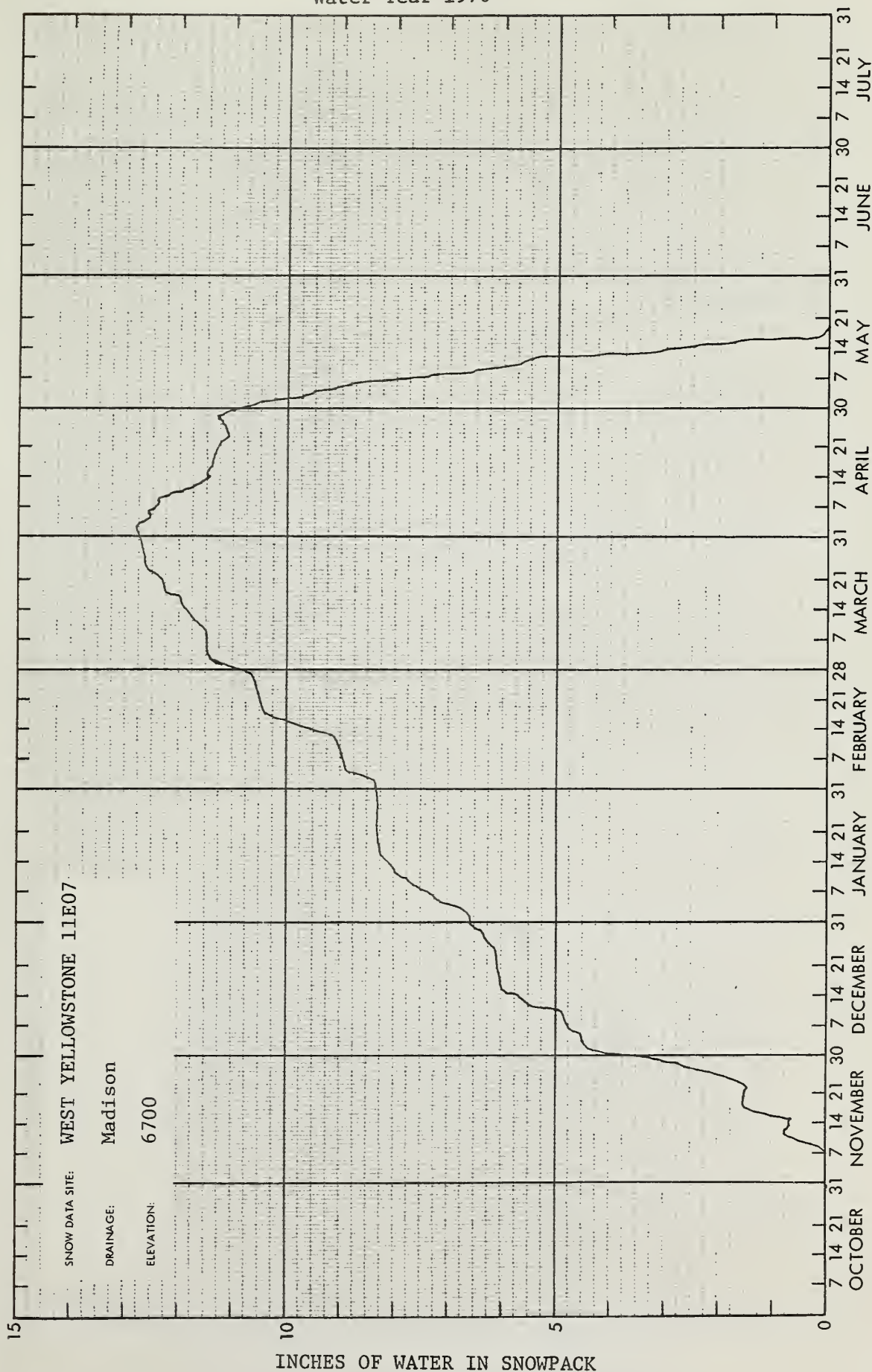


SNOW PILLOW DATA Water Year 1976



INCHES OF WATER IN SNOWPACK

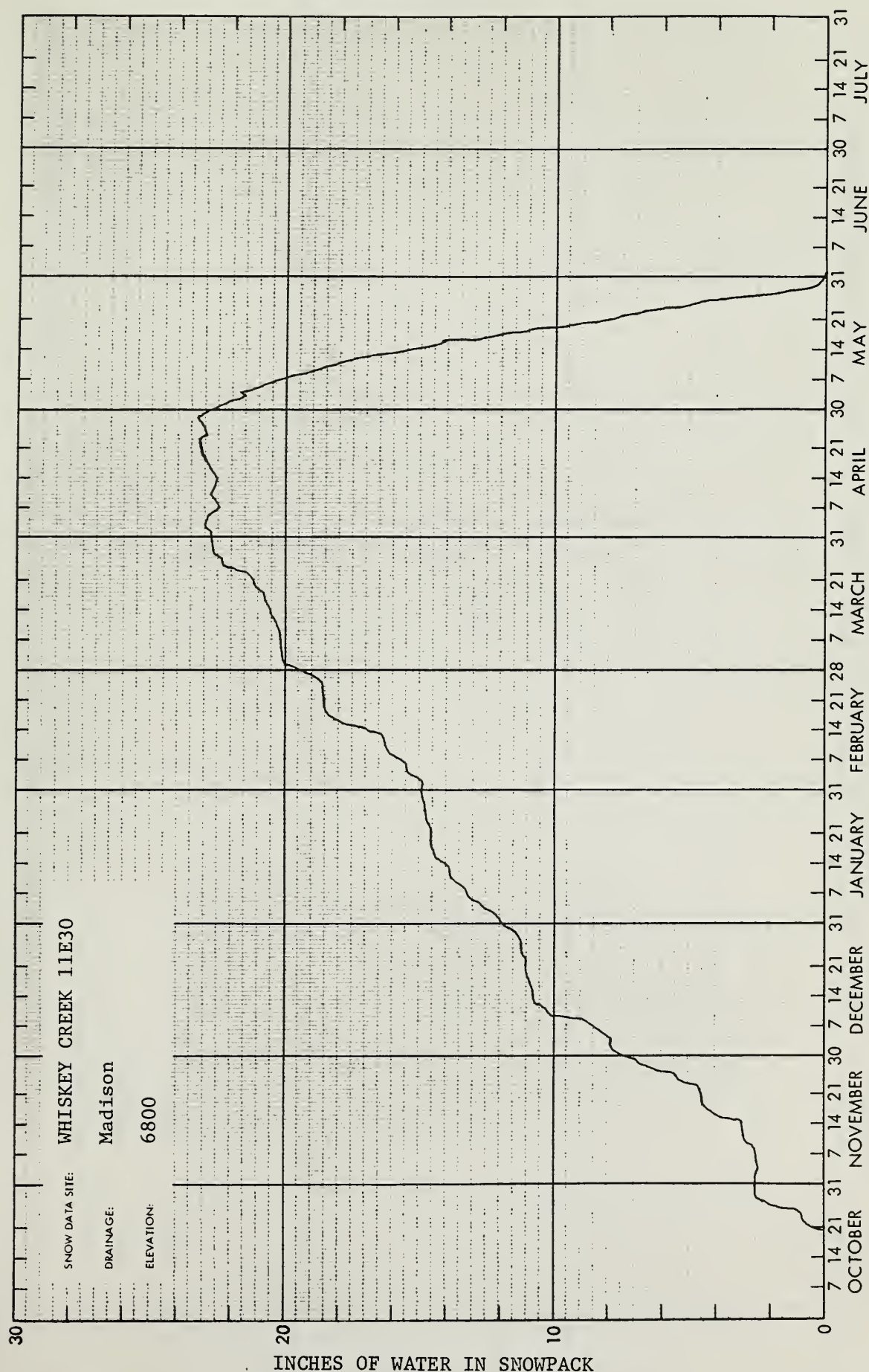
SNOW PILLOW DATA Water Year 1976



INCHES OF WATER IN SNOWPACK

SNOW PILLOW DATA Water Year 1976

WSFB-X138

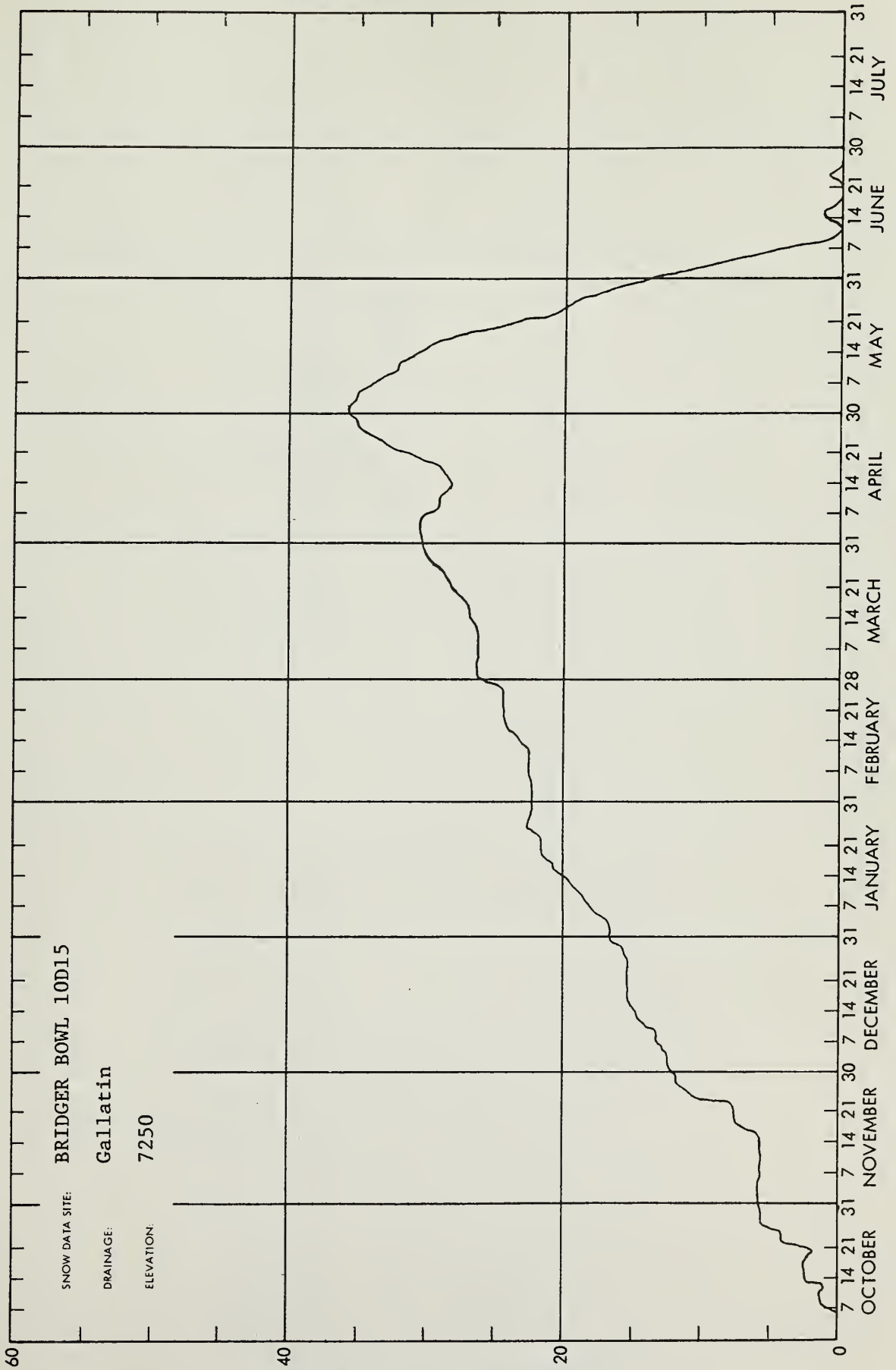


INCHES OF WATER IN SNOWPACK



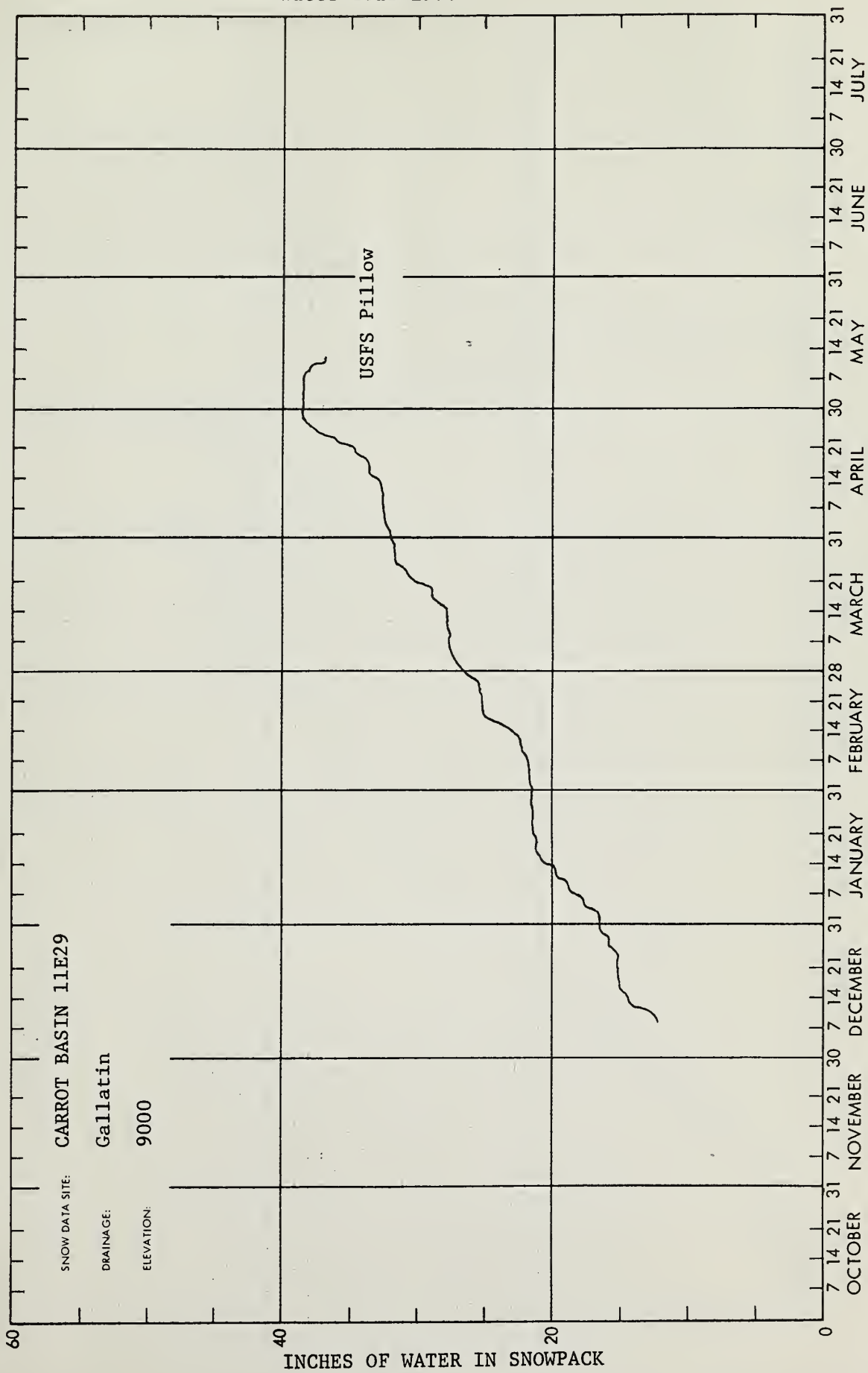
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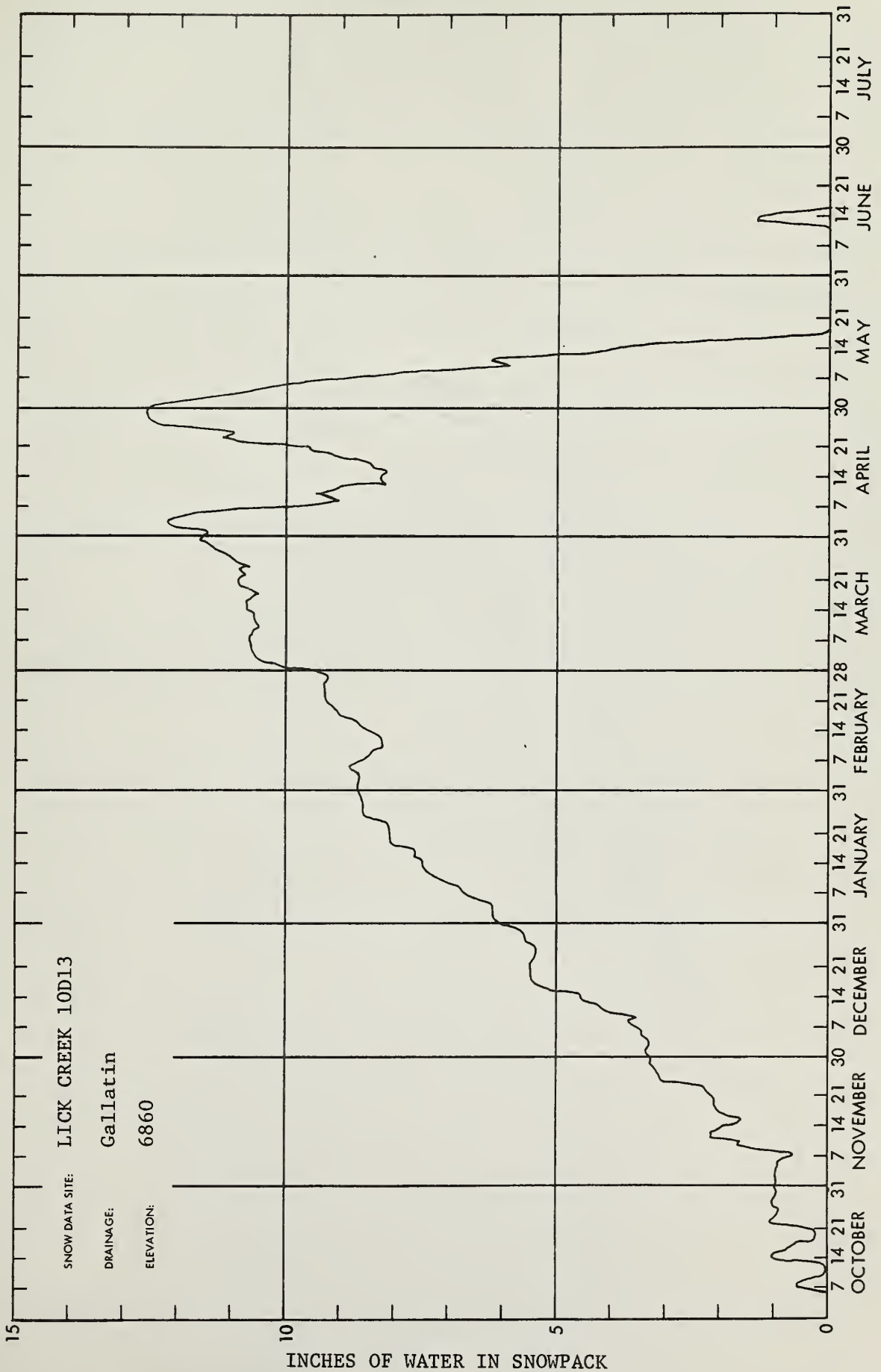


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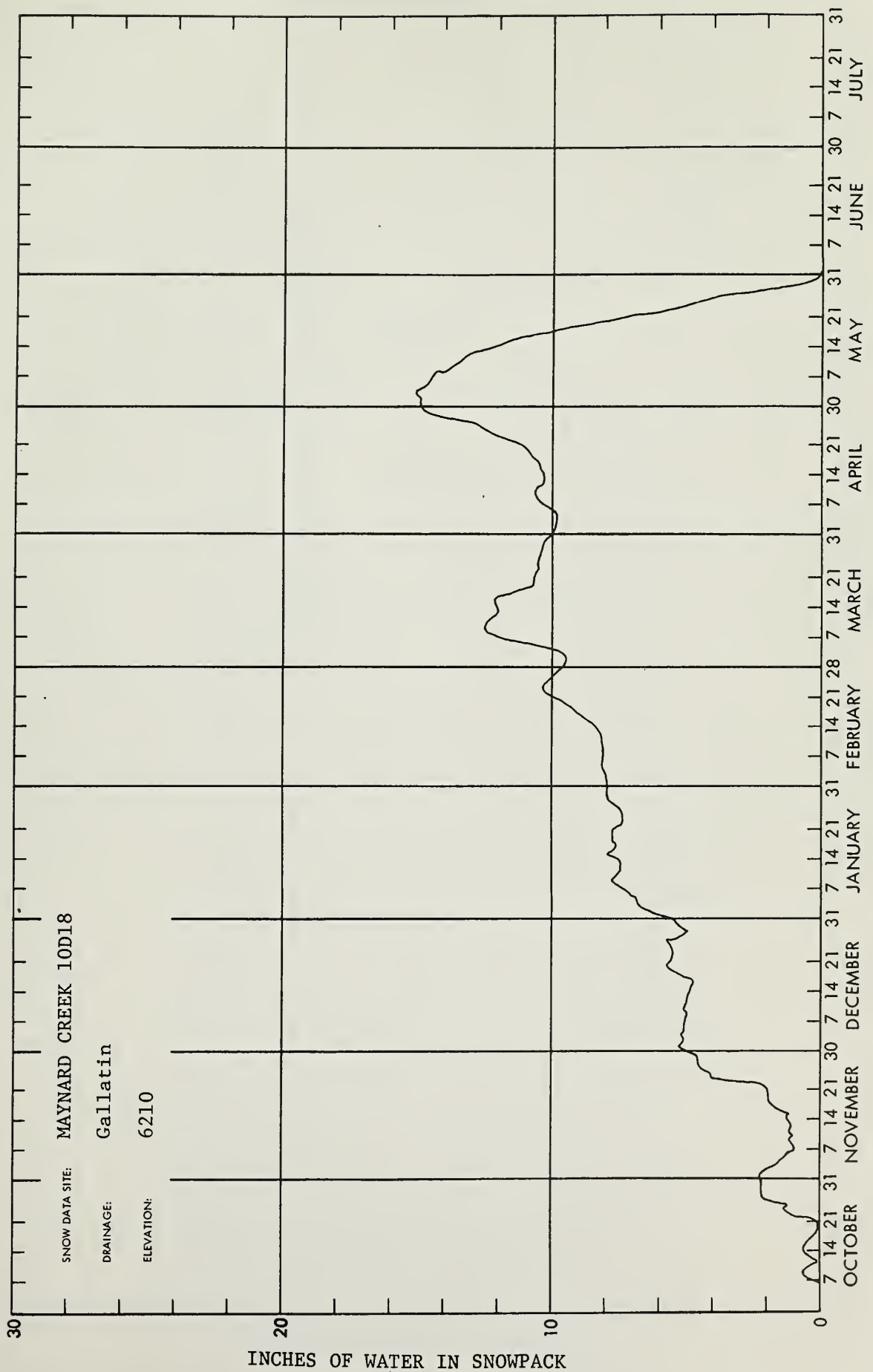


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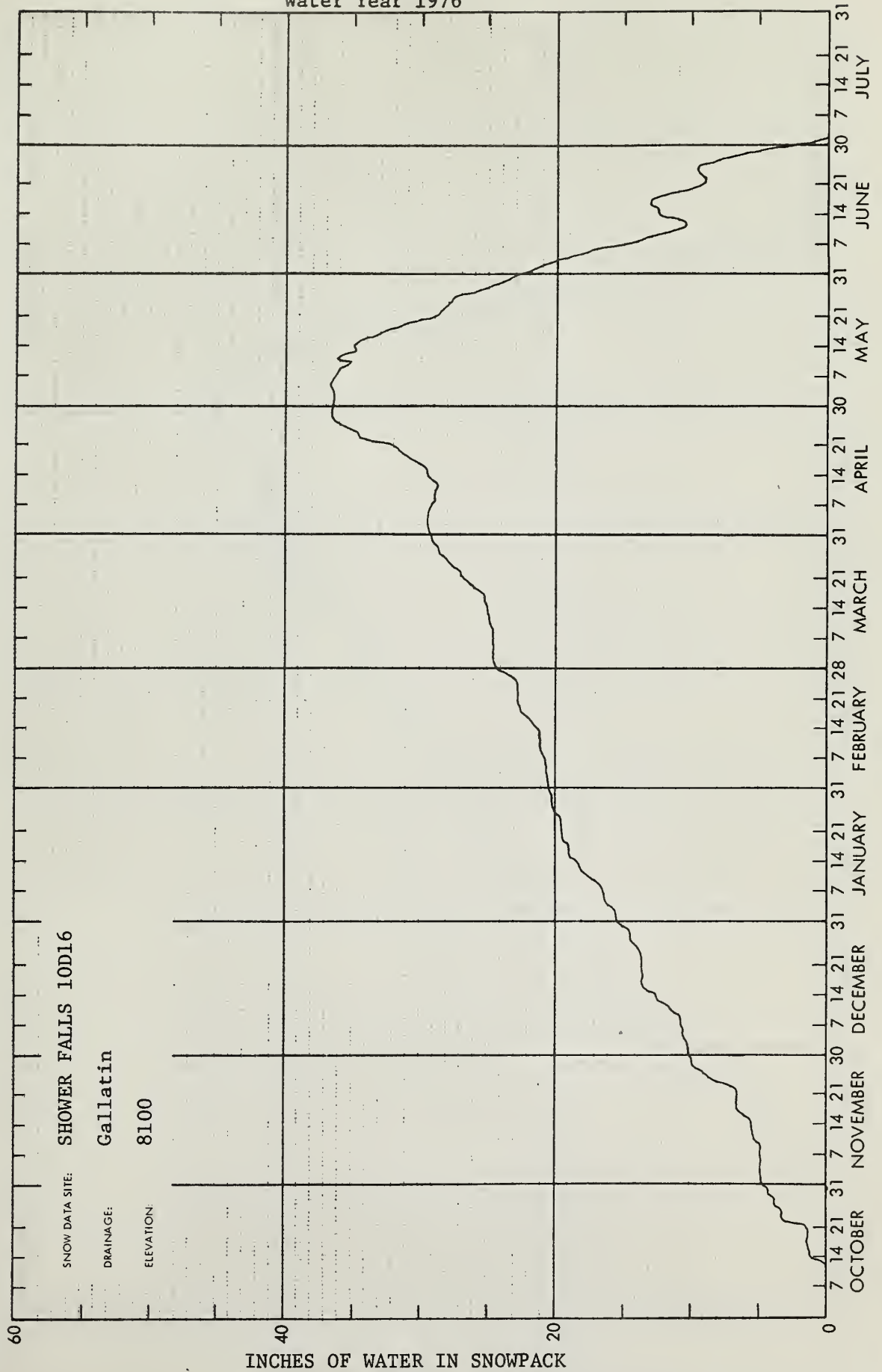


SNOW PILLOW DATA
Water Year 1976

WSFB-X13B

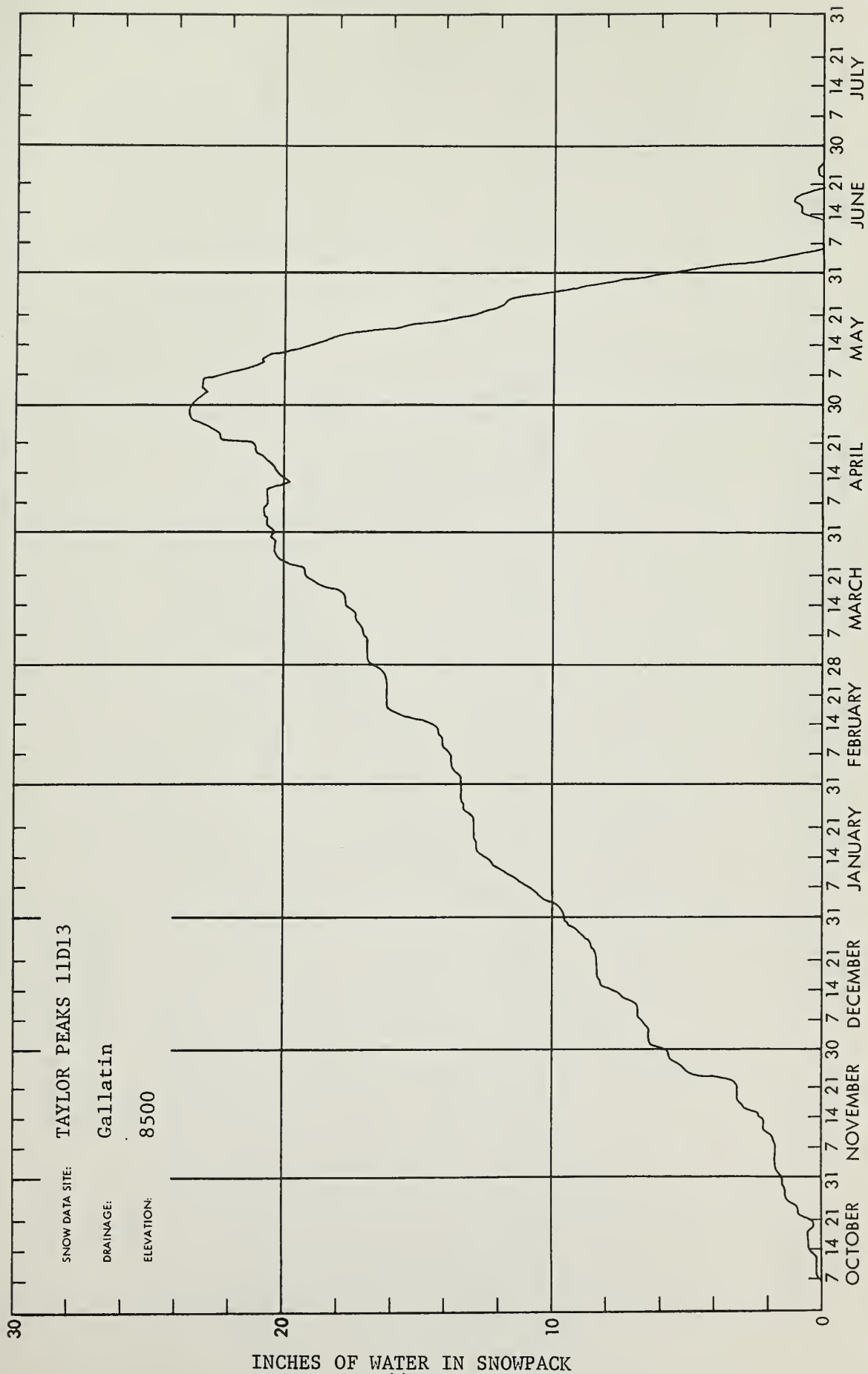


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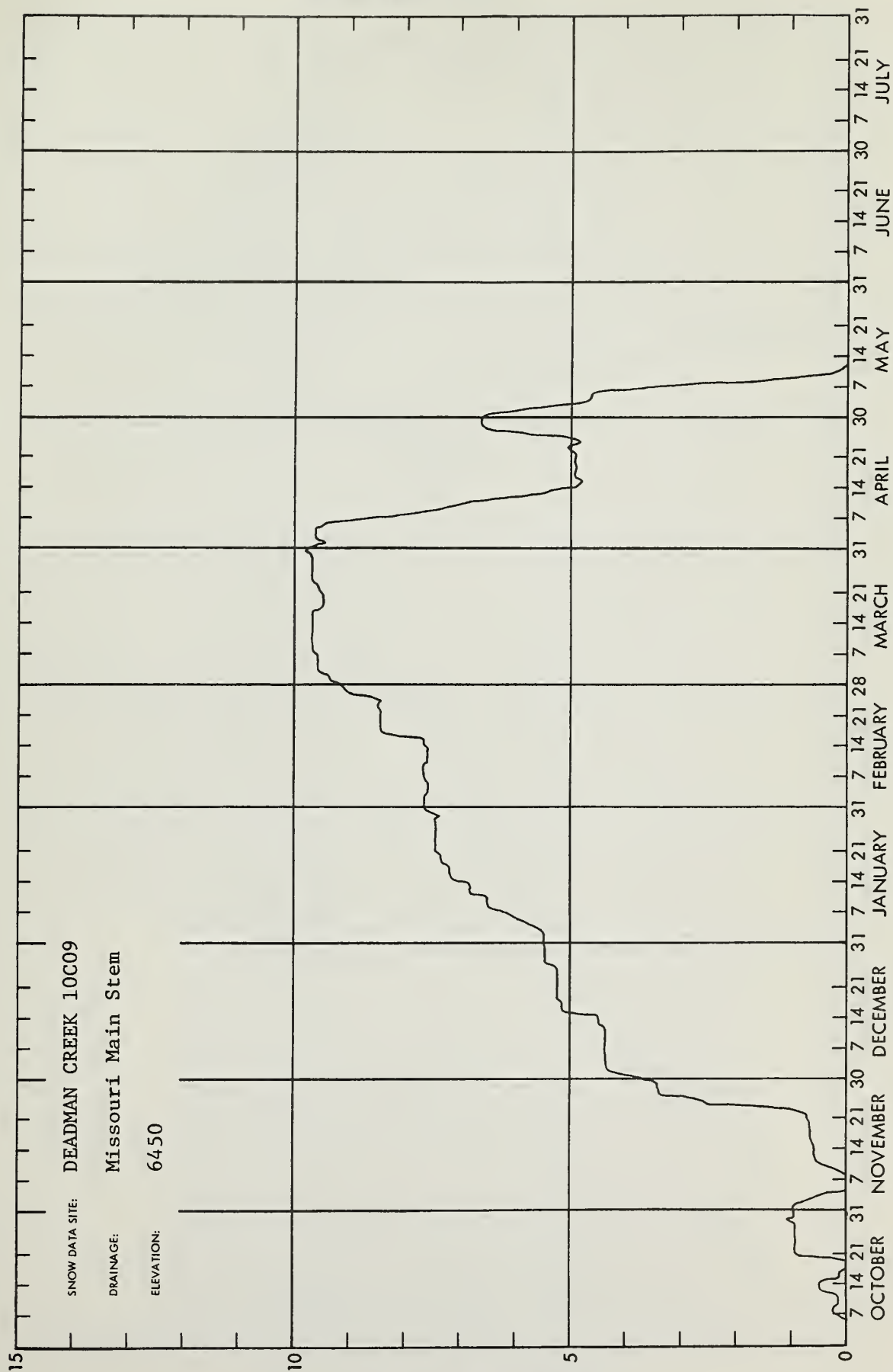
INCHES OF WATER IN SNOWPACK

SNOW PILLOW DATA
Water Year 1976



SNOW PILLOW DATA Water Year 1976

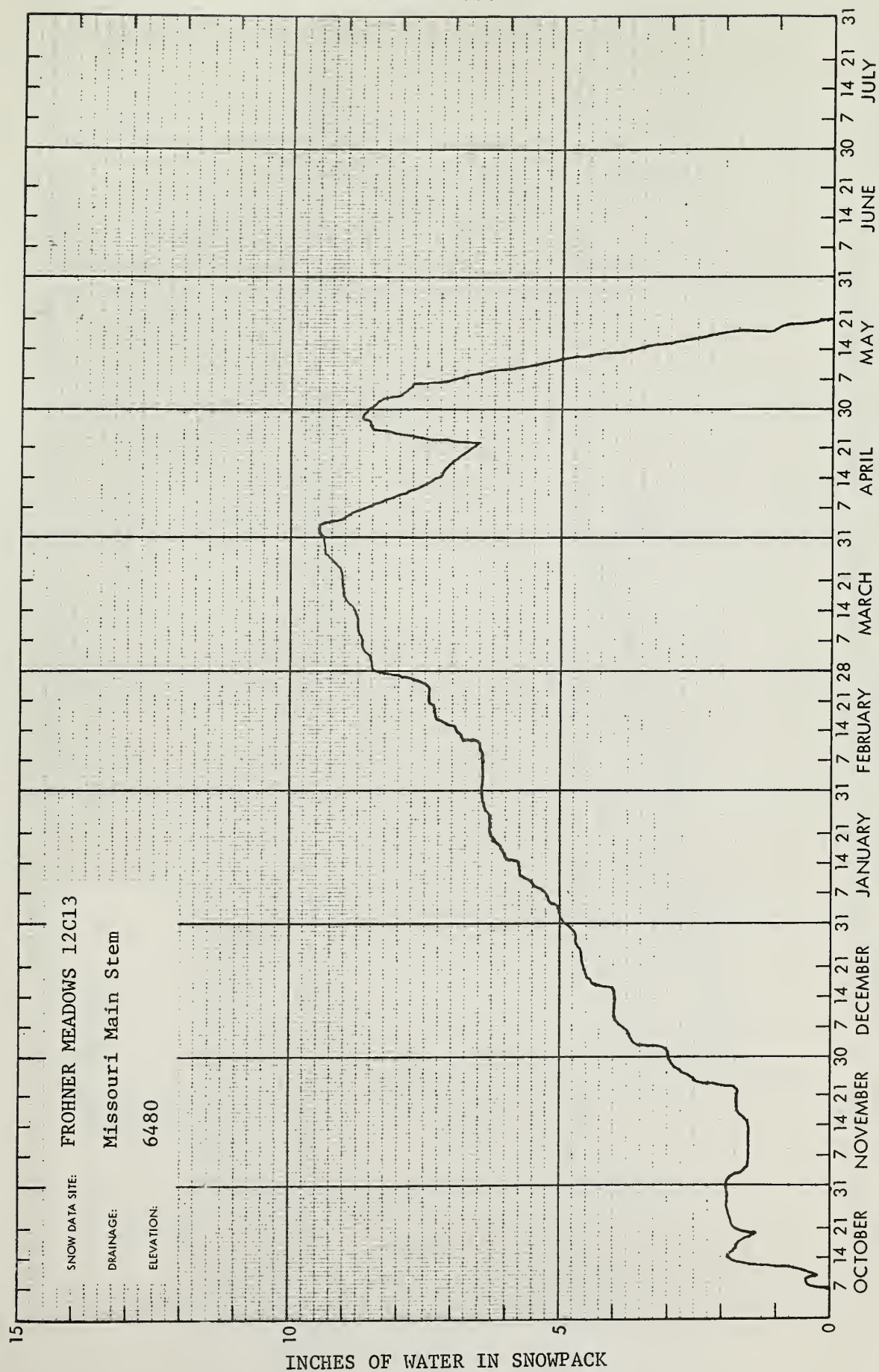
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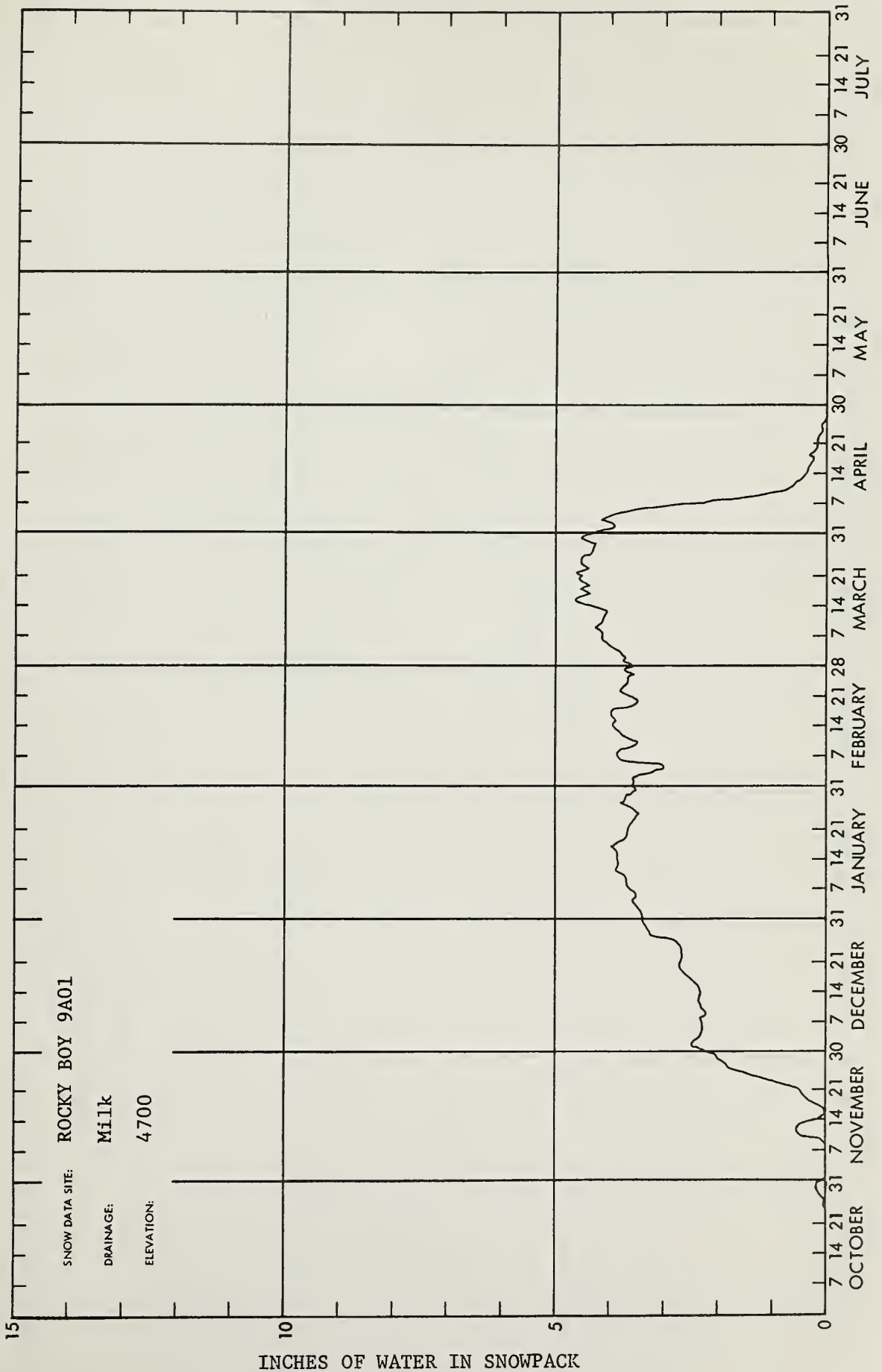
INCHES OF WATER IN SNOWPACK

SNOW PILLOW DATA Water Year 1976

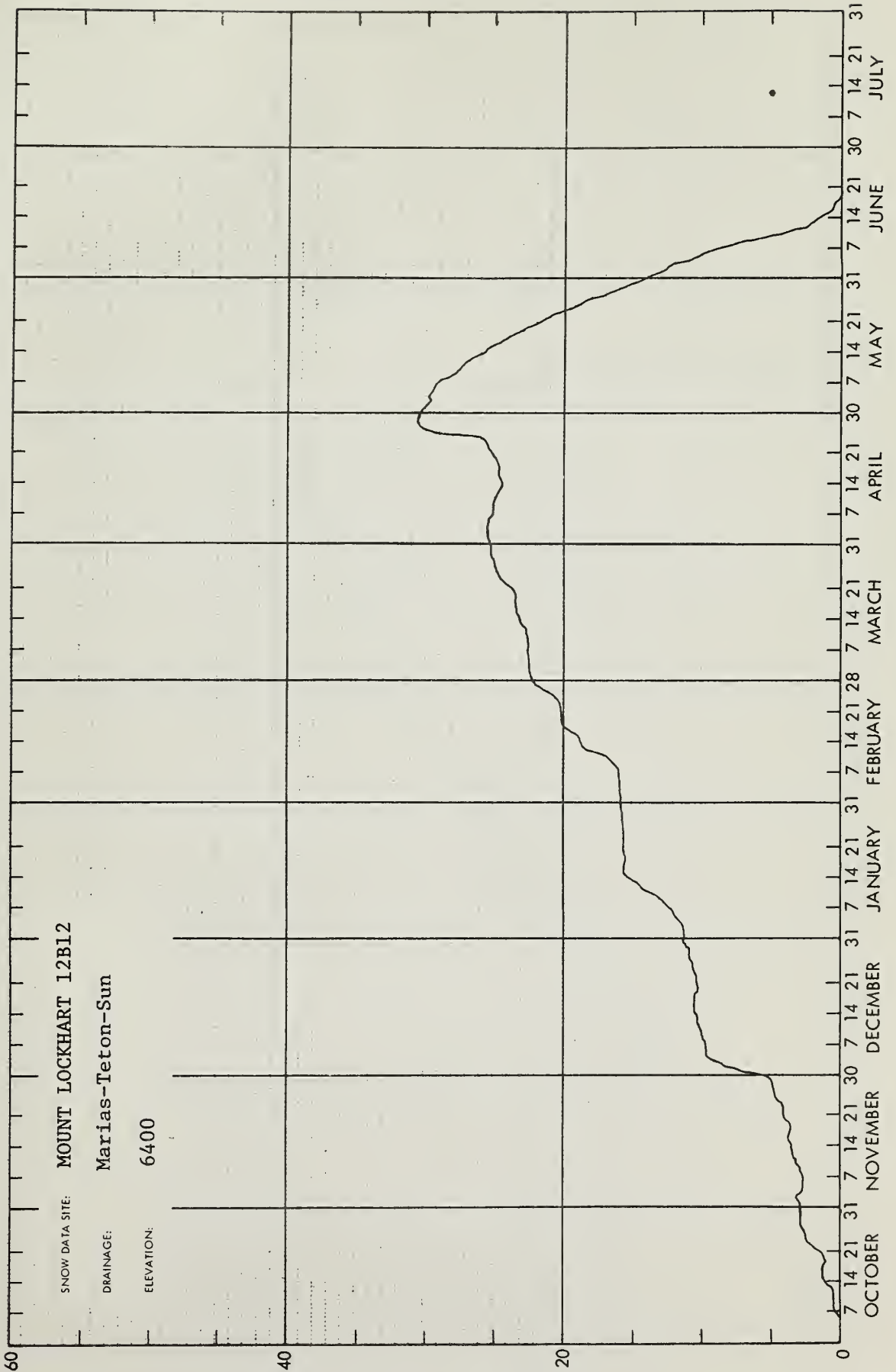
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SNOW PILLOW DATA Water Year 1976

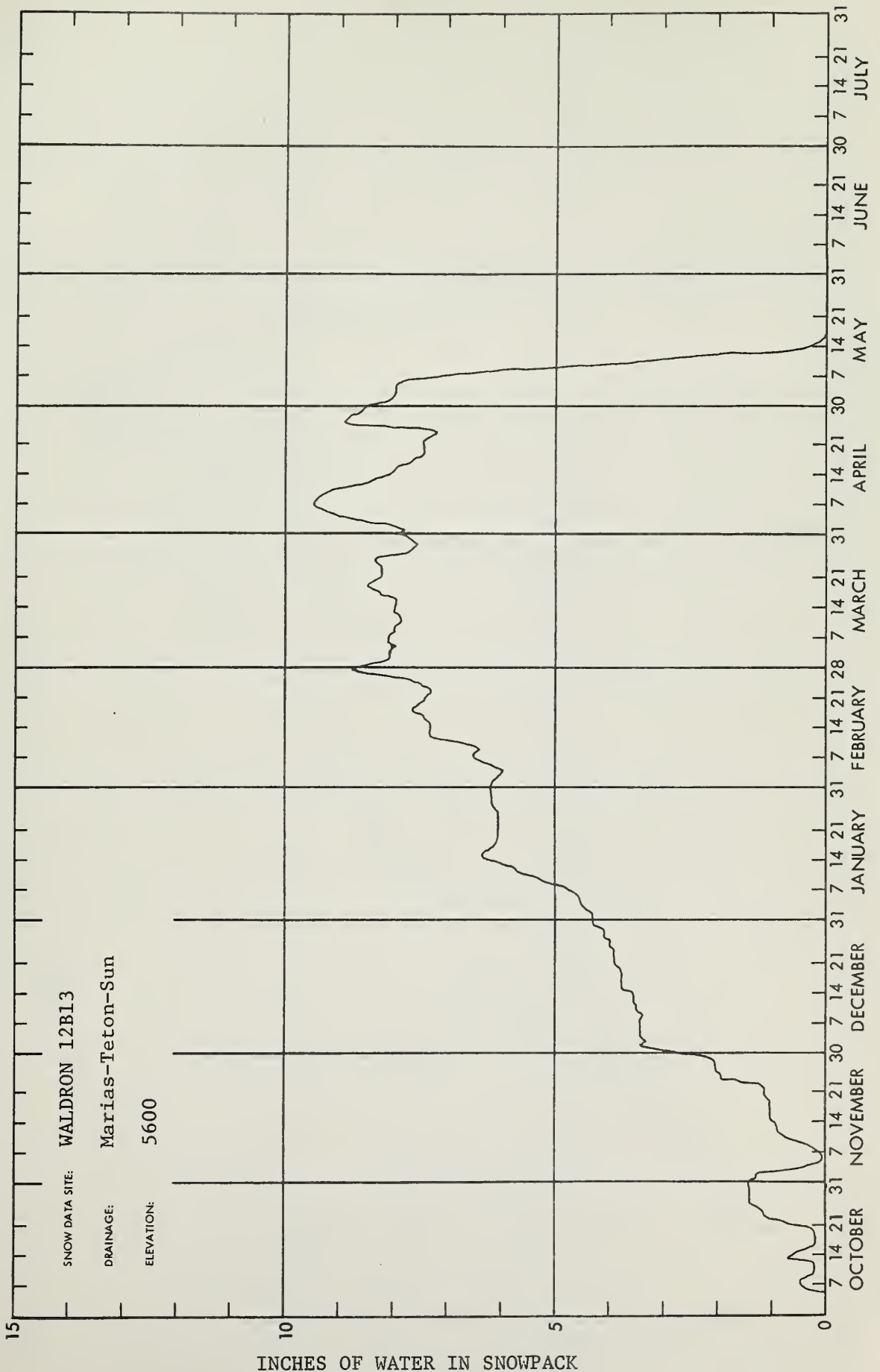


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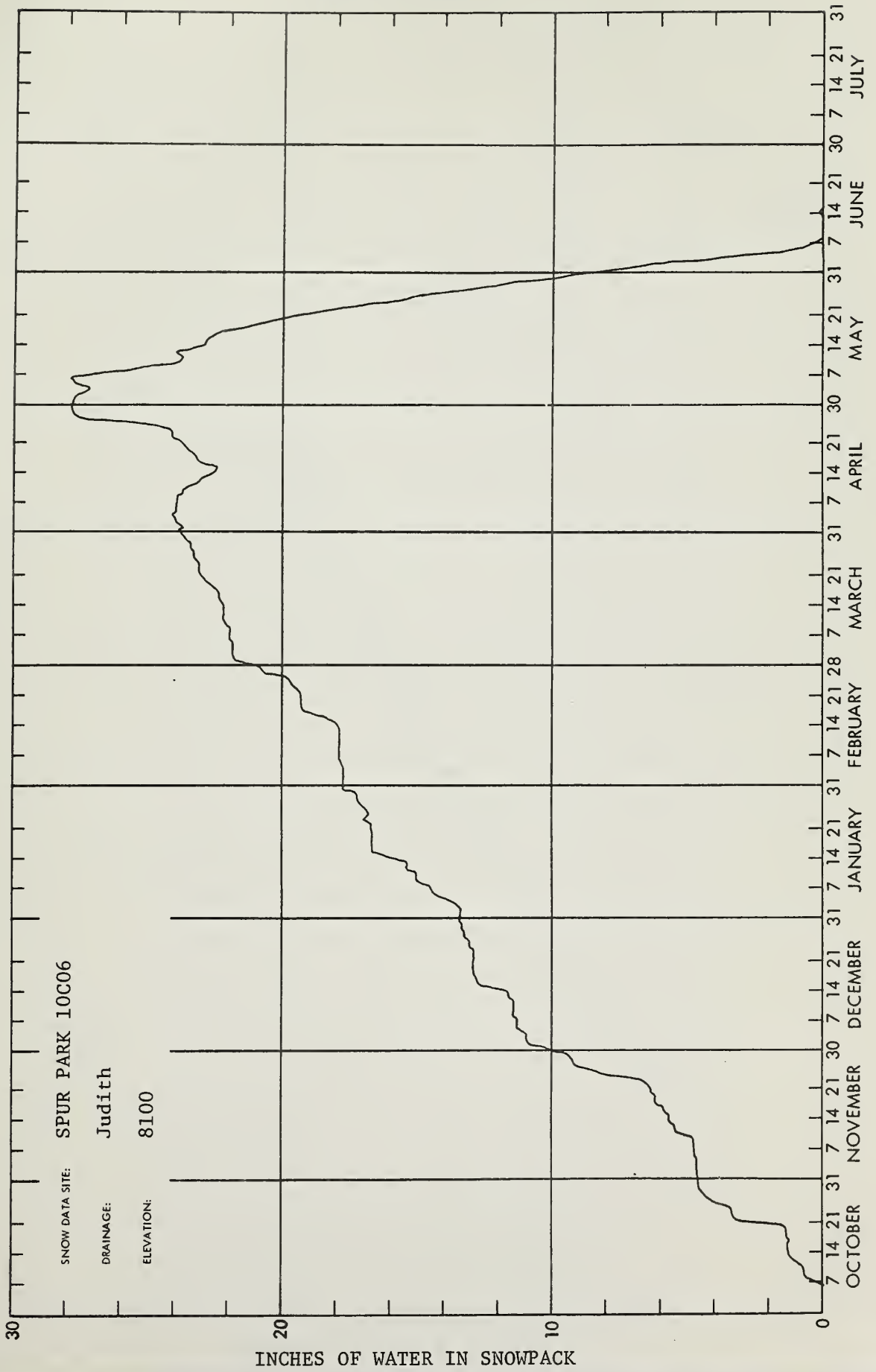


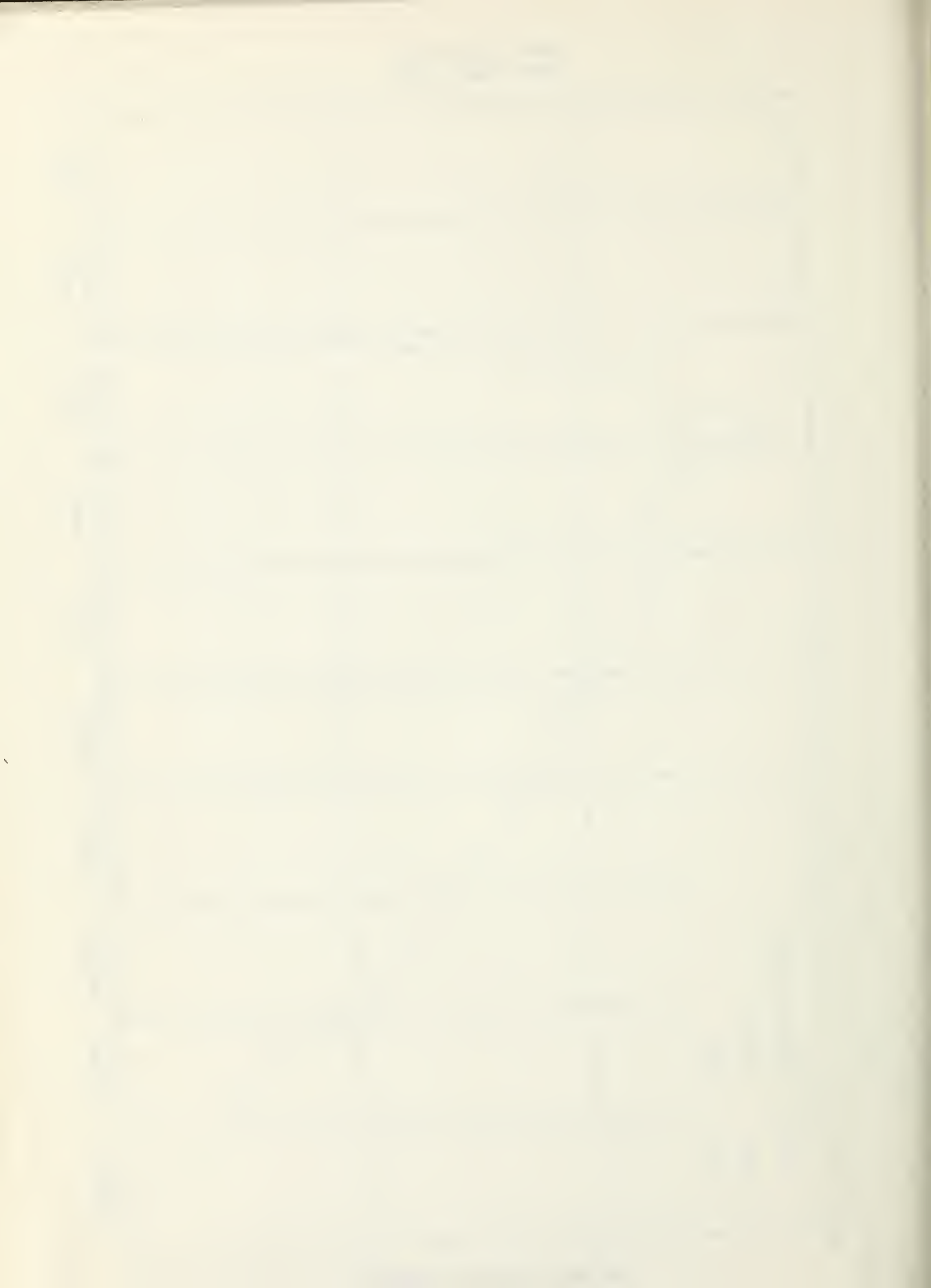
INCHES OF WATER IN SNOWPACK

SNOW PILLOW DATA
Water Year 1976

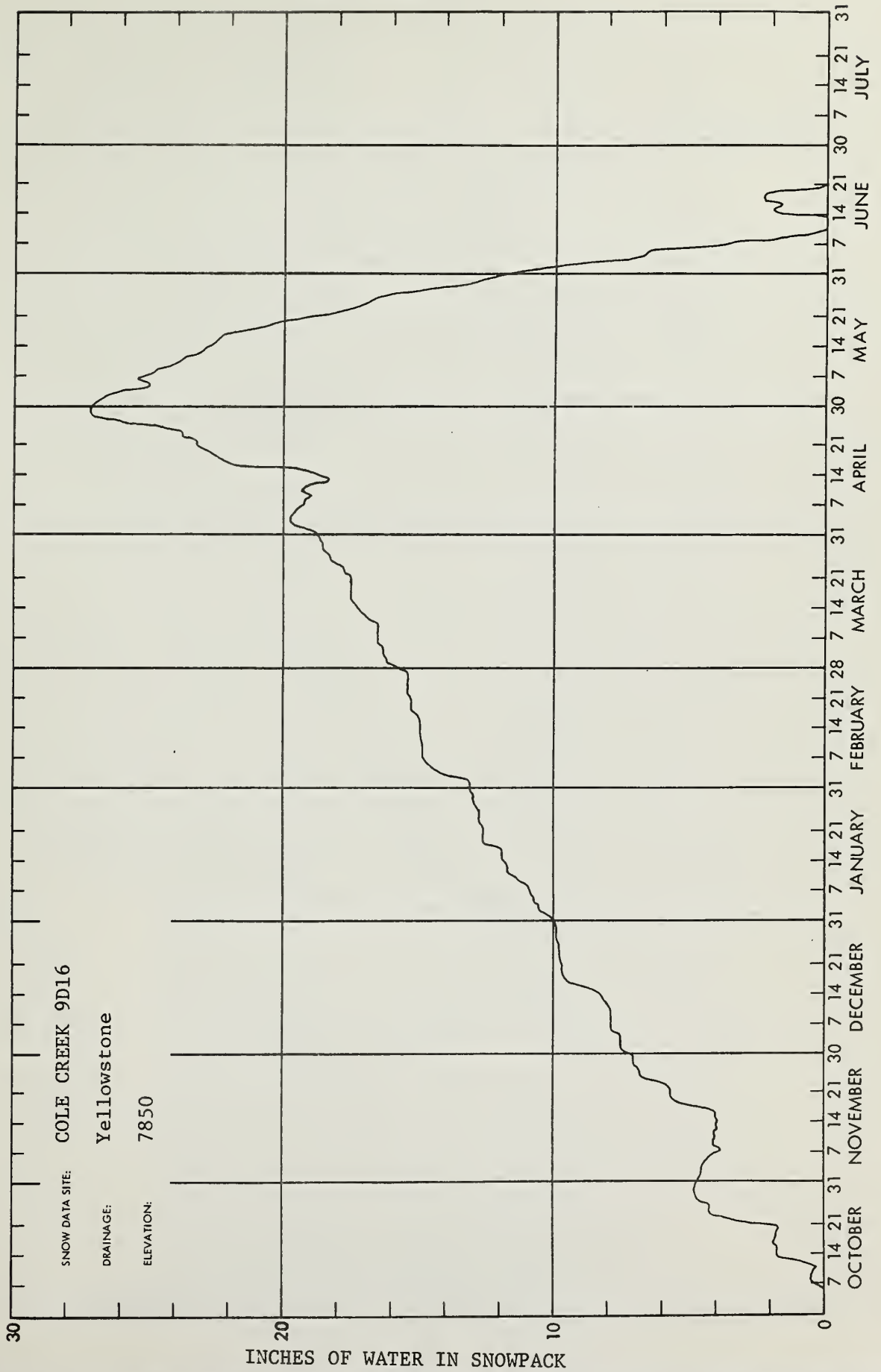


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Water Year 1976



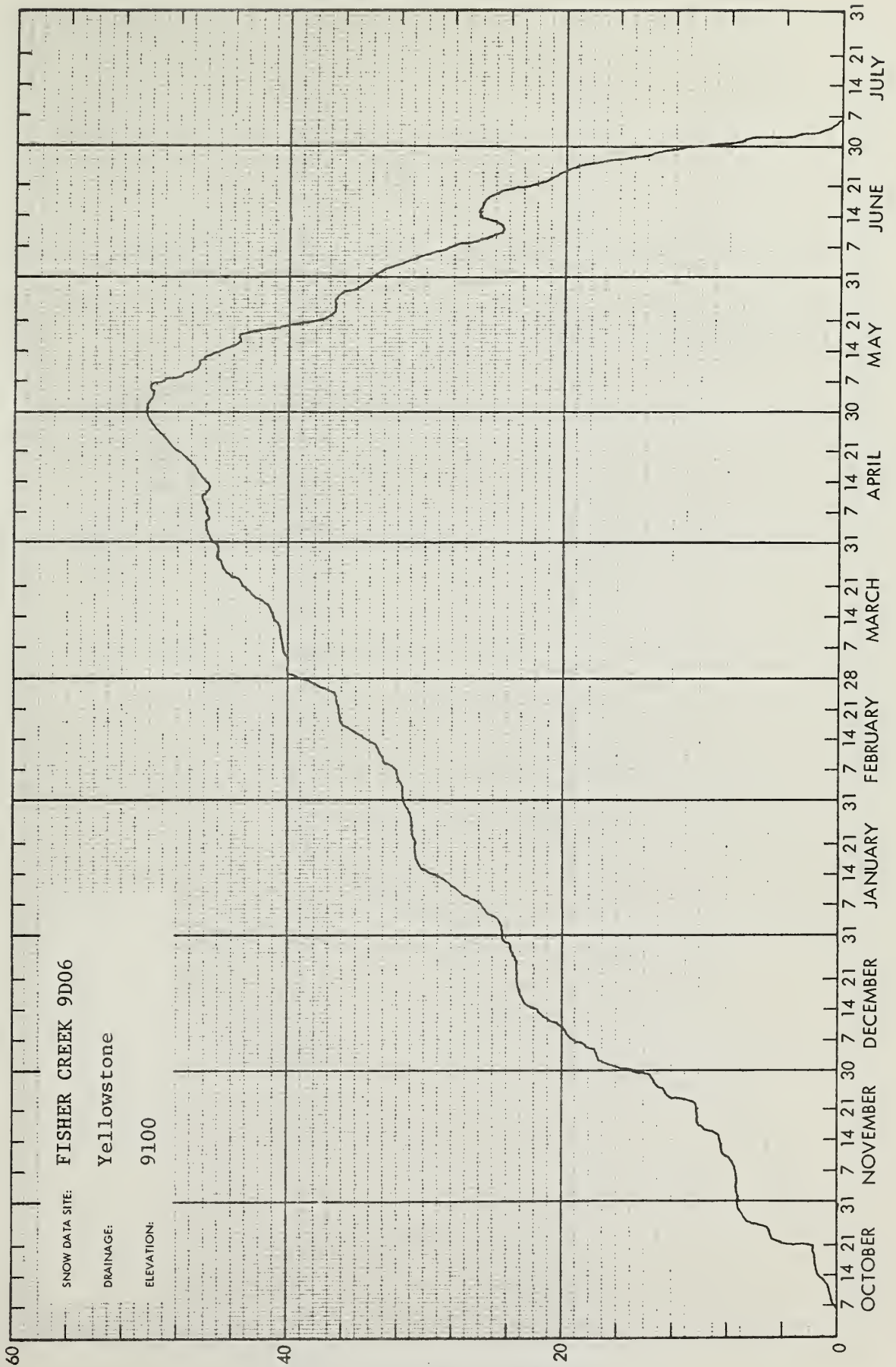


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Water Year 1976



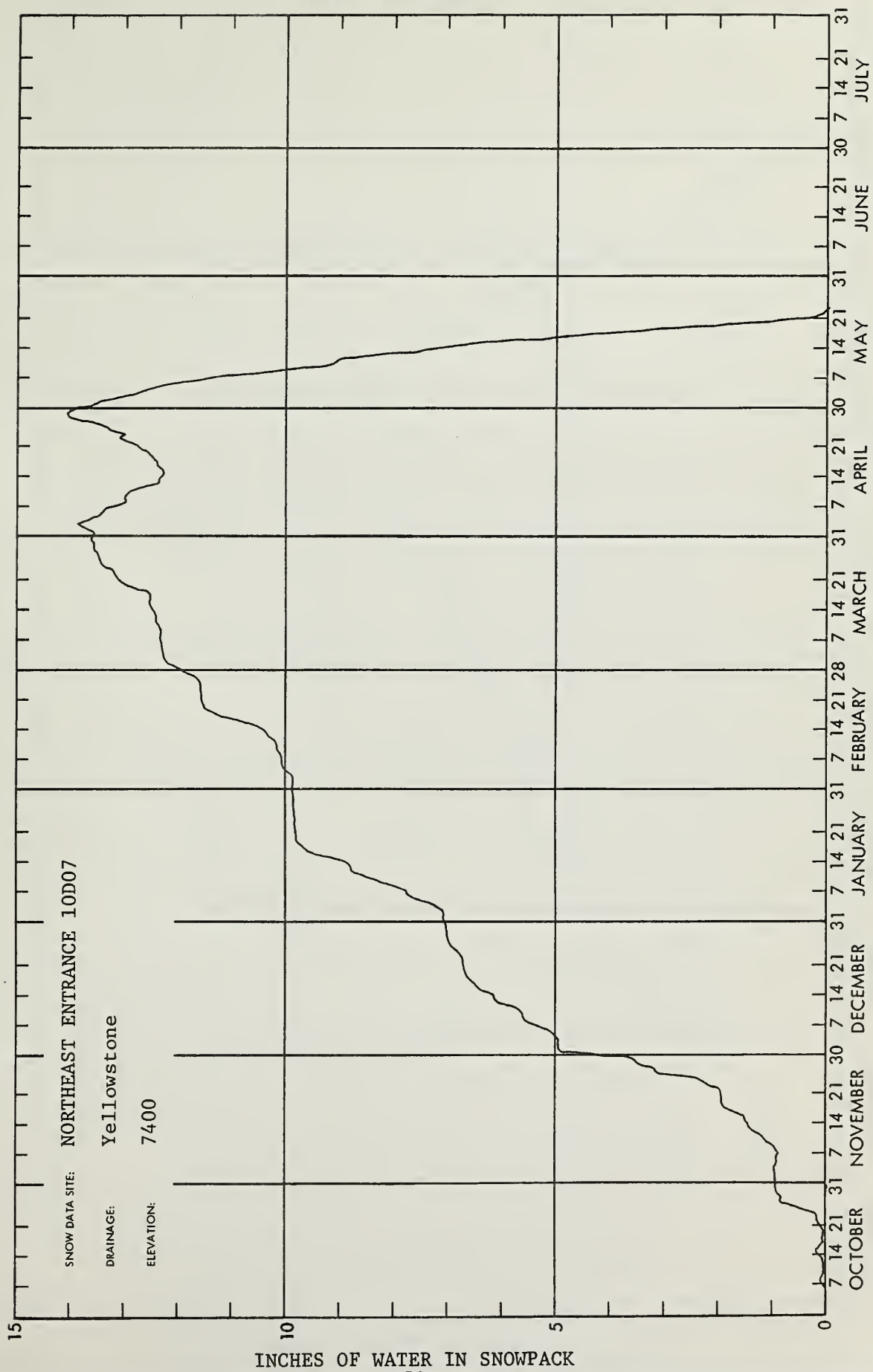


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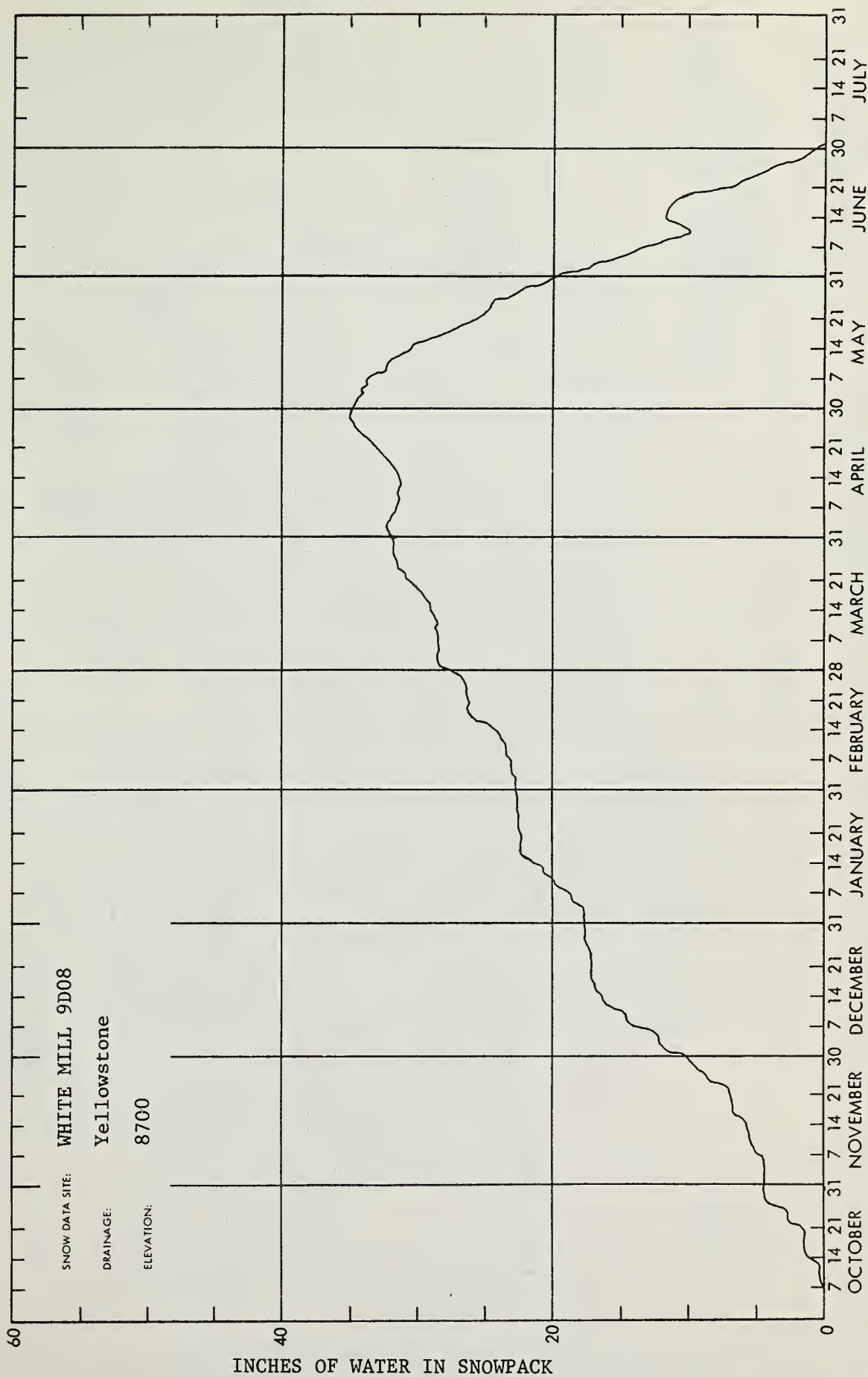




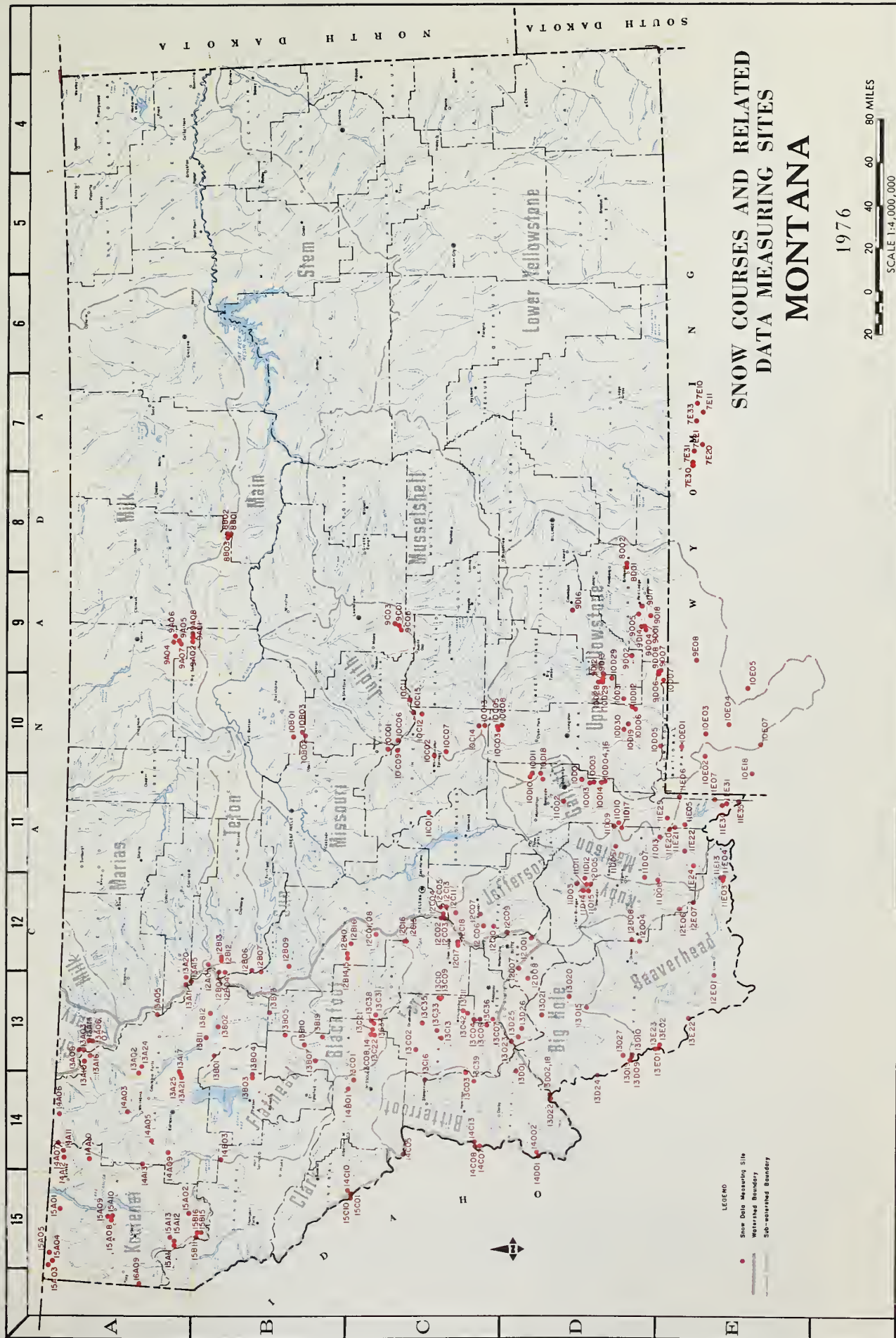
SNOW PILLOW DATA Water Year 1976



SNOW PILLOW DATA
Water Year 1976







SNOW COURSES AND RELATED DATA MEASURING SITES MONTANA

1976

INDEX to MONTANA SNOW COURSES and DATA SITES

Drainage Basin & Snow Course	Number	Elev.	Size	Dir.	Range	Sensors in Snow Course	Meaning of Data	Meaning of Data
SNOW COURSES								
COLUMBIA RIVER BASIN								
KOOTENAI RIVER								
Maid Eagle Peak	15411	4700	6	27N	31W	S.P.	3,4,5,5,6	1
Blackfoot Mountain	15408	3600	3	27N	30W	S.P.	2,3,4,5,5,6	1
Barren Creek	15410	3500	36	28N	31W	P, HSC	3,4,5,5,6	2
Barren Valley	15412	3800	3	28N	31W	P, HSC	3,4,5,5,6	2
Barren Valley	15413	3800	3	28N	30W	H	3,4,5,5,6	2
Brick Creek Timber	15410	3300	2	32N	30W	P, HSC	3,4,5,5,6	1,2
Brick Creek Timber	15411	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
Brick Creek Timber	15412	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
Brick Creek Timber	15413	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
Brick Creek Timber	15414	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
Brick Creek Timber	15415	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
Brick Creek Timber	15416	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
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Brick Creek Timber	15421	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
Brick Creek Timber	15422	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
Brick Creek Timber	15423	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
Brick Creek Timber	15424	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
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Brick Creek Timber	15429	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
Brick Creek Timber	15430	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
Brick Creek Timber	15431	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
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Brick Creek Timber	15434	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
Brick Creek Timber	15435	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
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Brick Creek Timber	15439	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
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Brick Creek Timber	15443	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
Brick Creek Timber	15444	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
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Brick Creek Timber	15446	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,2
Brick Creek Timber	15447	3300	32	32N	31W	P, HSC	3,4,5,5,6	1,

Agencies and Organizations Cooperating in Montana Snow Surveys

GOVERNMENT AGENCIES

Canada:

Water Survey of Canada, Calgary, Department of the
Environment
Water Resources Service, Department of Lands, Forests
and Water Resources, British Columbia

Federal:

Department of the Army
Corps of Engineers
U.S. Department of Agriculture
Forest Service
Soil Conservation Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of the Interior
Bonneville Power Administration
Bureau of Indian Affairs
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
National Park Service

STATE

Montana Association of Conservation Districts
Montana Department of Fish and Game
Montana Department of Natural Resources and
Conservation
Montana State University - Agricultural Experiment
Station
University of Montana - School of Forestry

PRIVATE

Montana Power Company

Other organizations and individuals furnish valuable
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is gratefully acknowledged.

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necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*